ACP

	10	20	30	40
GPLGS	ADTLERVTKI	IVDRLGVDEA	DVKLEASFKE	DLGADSLDVV
	50	60	70	76
	ELVMELEDEF	DMEISDEDAE	KIATVGDAVN	YIQNQQ

ACPS

10	20	30	40
AYGIGLDIT	ELKRIASMAG	RQKRFAERIL	TRSELDQYYE
50	60	70	80
LSEKRKNEFL	AGRFAAKEAF	SKAFGTGIGR	QLSFQDIEIR
90	100	110	120
KDQNGKPYII 121 S	CTKLSQAAVH	VSITHTKEYA	AAQVVIERLS

FIG. 1

```
Aquifex
                      ----MIGVDIVKNERIKDALERFGDKFLDRIYTKRELEYCY----AHCDFLPCLAARWAG
                      MEIIHIGTDIIEISRIREAIATHGNRLLNRIFTEAEQKYCL---EKTDPIPSFAGRFAG
Chlamydophila
                       ----MIGIDIVSIARIEKCVKRFKMKFLERFLSPSEIVLCK----DKSS---SIAGFFAL
Helicobacter
                   1
Staphylococcus
                   1
                       -MIHGIGVDLIEIDRIQALYSKQ-PKLVERILTKNEQHKFNN-FTHEQRKIEFLAGRFAT
Thermotoga
                       -MIVGVGIDVLEVERVP-----EKFAERILGESEKRLF---LTRKRRR-EFIAGRFAL
                      MAILGLGTDIVEIARIEAVIARSGDRLARRVLSDNEWAIWK---THHQPV-RFLAKRFAV
Escherichia
                   1
                       -MLIGVGTDIVQIPRIEKILNIYQELFAKKILALKELKQFT--LLNKTNHATFLAKRFSA
Rickettsia
                      MSIIGVGIDVAEVERFGA-ALERTPALAGRLFLESELLLP----GGERRGVASLAARFAA
Streptomyces
Treponema
Bacillus
                       -MIIGVGIDIVEIERFVS-WTHNVRLLR-RFFHQEEIVDF----FKNHMRAQFLATRFAA
                      -MIYGIGLDITELKRIAS-MAGRQKRFAERILTRSELDQYY--ELSEKRKNEFLAGRFAA
-MIIGIGSDLIDITRYGKVIERHGERFLDRIFTAAERAKAERRAKNEKMVVATYAKRFAA
Bradyrhizobium
                      MGIVGVGIDLVSIPDFAEQVSQPGTVFM-TIFTPGERRDAS---VKSSSAVCHLAARWAV
Mycobacterium
consensus
                            G D
                                                       E
                   1
                      KEAVLKAFYTEFKIFL-----RFKEIEILGNRGRPPTVVINRE--GVEEILKNY----E
Aquifex
                  53
                      KEAVAKALGTGIGSVV-----AWKDIEVFKVSHGPEVLLPS----HVYAKIGIS----K
KEACSKALQVGIGKEL-----SFLDIKISKSPKNAPLITLSK---EKMDYFNIQ----S
Chlamydophila
                  57
                  50
Helicobacter
                  58
                      KEAFSKALGTGLGKHV-----AFNDIDCYNDELGKPKI-----DYEGF----I
Staphylococcus
                      KEAFFKALGTGLNGH-----SFTDVEFLESN-GKPVLCVH-----KDFGFFN---Y KEAAAKAFGTGIRNGL----AFNQFEVFNDELGKPRLRLWGEALKLAEKLGVA----N
Thermotoga
                  49
57
Escherichia
                      KEAVSKAFGVGIGRGI-----NFKDITILNDNLGKPTVEISS---HYTNKLAPF----N
Rickettsia
                  58
                  56
                      KEALAKALGAPAG--L-----LWTDAEVWVEAGGRPRLRVTGTVAARAAELGVA----S
Streptomyces
Treponema
                  54
                      KEAFGKALGTGLRN-M-----ELRNIRVCQNGWGKPRLEVYGAAQAMLAATGGT----H
Bacillus
                  57
                      KEAFSKAFGTGIGRQL-----SFQDIEIRKDQNGKPYIICT-----KLSQA----A
                      KEACSKALGTGIRRGV-----WWRDMGVVNLPGGRPTMQLTGGALARLQALTPDGFEAR
Bradyrhizobium
                  60
Mycobacterium
                  57
                      KEAVIKAWSGSRFAQRPMLPENIHRDIEVVNDMWGRPRVRLTG---AIAKHLTDV----T
                  61
consensus
                      KEA KA
                      61......70......80.......90.......100......110......
                  61
                      VIVSLSHERDYSVAVAYIKKKS-----
                 101
Aquifex
                      VILSISHCKEYATATAIALA------
Chlamydophila
                 103
                      LSASISHDAGFAIAVVVVSSSNE-----
Helicobacter
                  97
Staphylococcus
                  97
                      VHVSISHTEHYAMSQVVLEK-----SAF------
                  91
Thermotoga
                      AHVSLSH-DRFAVALVVLEKRKGDIIVEGDESFLRKRFEVLERSVEGWEIETSLPPFTLK
                      MHVTLADERHYACATVIIES-----IHLSLSDDYPICIAFAIIESNC-----
Escherichia
                 107
Rickettsia
                 105
                      WHVSLSHDAGIASAVVIAEG----IQVSLTHEREVASAIVIIEGEPL-----
Streptomyces
                 104
Treponema
                 103
                      VHVSITHTKEYAAAQVVIERLSS-----
Bacillus
                  99
Bradyrhizobium
                 114
                      IDVSITDDWPLAQAFVIISAVPLAKS-----
Mycobacterium
                      IHVSLTHEGDIAAAVVILEVL-----
                 110
consensus
                 121
                      121......130.......140.......150.......160.......170......
Aquifex
Chlamydophila
Helicobacter
Staphylococcus
                      KLLESSGCRLVRYGNILIGE
Thermotoga
Escherichia
Rickettsia
                      -----
Streptomyces
Treponema
Bacillus
Bradyrhizobium
Mycobacterium
consensus
                 181
                 181
                      181.....
```

FIG. 3

		Atom								
		Туре	Residue		<u> </u>	<u> </u>	<u>z</u>	_0CC	<u>B</u>	MOL
MOTA	1	CB	ALA	2	21.270	43.877	0.867	1 00	54.04	Al
ATOM	2	C	ALA	.2	21.146	41.525	-0.081		53.17	A1
MOTA	3	0	ALA	2	20.651	40.668	0.655		53.21	Al
MOTA	4	N	ALA	2	19.058	42.876	0.195		54.07	A1
ATOM	5	CA	ALA	2	20.526	42.932	-0.136		53.98	A1
MOTA	6	. N	TYR	3	22.204	41.299	-0.869		51.45	Al
MOTA	7	CA	TYR	3	22.910	40.017	-0.878		49.41	Al
ATOM	8	CB	TYR	3	23.783	39.899	-2.129		52.10	Al
MOTA	9	CG	TYR	3	22.990	39.823	-3.410		55.89	Al
ATOM	10	CD1	TYR	3	21.766	39.131	-3.444		57.46	Al
MOTA	11	CE1	TYR	3	21.050	38.984	-4.611		58.14	Al
ATOM	12	CD2	TYR	3	23.477	40.371	-4.606		56.50	Al
ATOM	13	CE2	TYR	3	22.757	40.222	-5.804		58.53	Al
ATOM	14	CZ	TYR	3	21.536	39.525	-5.785		58.85	Al
MOTA	15	OH	TYR	3	20.764	39.383	-6.913		60.32	Al
ATOM	16	C	TYR	3	23.793	39.899	0.393		46.52	Al
MOTA	17	0	TYR	3	24.622	40.790	0.704		45.60	Al
ATOM	18	N	GLY	4	23.609	38.782	1.102		42.70	Al
MOTA	19	CA	GLY	4	24.320	38.543	2.338		37.45	Al
ATOM	20	C	GLY	4	24.041	37.193	2.962		33.70	Al
ATOM	21	0	GLY	4	23.431	36.317	2.340		32.64	Al
ATOM	22	N	ILE	5	24.512	37.019	4.197		30.10	Al
MOTA	23	CA	ILE	5	24.326	35.759	4.880	1.00	27.52	Al
ATOM	24	CB	ILE	5	25.660	34.841	4.938		25.29	Al
ATOM	25	CG2	ILE	5	26.176	34.529	3.511	1.00	25.87	A1
ATOM	26	CG1	ILE	5	26.785	35.531	5.686		23.40	A1
MOTA	27	CD1	ILE	5	28.015	34.655	5.920	1.00	20.98	Al
ATOM	28	C	ILE	5	23.890	36.156	6.277	1.00	26.57	A1
ATOM	29	0	ILE	5	24.113	37.278	6.689	1.00	24.85	Al
MOTA	30	N	GLY	6	23.263	35.229	6.984	1.00	25.44	Al
ATOM	31	CA	GLY	6	22:811	35.540	8.317	1.00	26.60	A1
MOTA	32	C	GLY	6	22.852	34.284	9.166	1.00	26.44	Al
MOTA	33	0	GLY	6	22.550	33.151	8.686	1.00	26.78	Al
MOTA	34	N	LEU	7	23.239	34.472	10.421	1.00	26.41	A1
ATOM	35	CA	LEU	7	23.319	33.374	11.363	1.00	26.97	A1
ATOM	36	CB	LEU	7	24.764	33.021	11.639	1.00	27.07	A1
ATOM	37	CG	LEU	7	24.948	31.919	12.694	1.00	25.72	. A1
ATOM	38		LEU	7	24.329	30.596	12.115	1.00	24.08	Al
ATOM	39	CD2	LEU	7	26.486	31.751	12.993	1.00	24.38	A1
ATOM	40	C	LEU	7	22.667	33.741	12.657	1.00	28.25	A1
ATOM	41	0	LEU	7	22.874	34.834	13.154	1.00	28.97	A1
ATOM	42	N	ASP	8	21.858	32.861	13.225	1.00	29.53	A1
ATOM	43	CA	ASP.	8	21.272	33.229	14.505	1.00	31.00	Al
MOTA	44	CB	ASP	8	19.978	34.022	14.354		32.06	A1
ATOM	45	CG	ASP	8	19.332	34.330	15.737		35.48	A1
ATOM	46		ASP	8	18.624	33.437	16.301	1.00	35.96	Al
ATOM	47		ASP	8	19.556	35.443	16.293	1.00	34.80	Al
ATOM	48	C	ASP	8	20.994	32.043	15.374	1.00	31.76	A1
ATOM	49	0	ASP	8	20.379	31.114		1.00	32.34	λl

ATOM	50	N	ILE	9	21.471	32.072	16.618	1.00 32.83	2.1
MOTA	51	CA	ILE	9	21.247	31.006	17.589	1.00 34.13	A1 A1
ATOM	52	CB	ILE	9	22.570	30.453	18.178	1.00 34.00	Al
ATOM	53	CG2		9	22.296	29.317	19.164	1.00 33.87	Al
ATOM	54	CG		9	23.444	29.887	17.067	1.00 34.24	Al
ATOM	55		LILE	9	24.893	29598	17.566	1.00 35.11	Al
ATOM	56	C	ILE	9	20.398	31.673	18.684	1.00 35.95	Al
ATOM	57	0	ILE	9	20.706	32.779	19.152	1.00 35.83	A1
MOTA MOTA	58	И	THR	10	19.276	31.027	19.009	1.00 37.57	Al
ATOM	59	CA	THR	10	18.319	31.517	20.012	1.00 38.92	A1
ATOM	60	CB	THR	10	16.963	31.852	19.371	1.00 39.79	A1
ATOM	61	0G1		10	17.071	33.055	18.597	1.00 42.44	Al
ATOM	62	CG2		10	15.920	32.030	20.438	1.00 41.04	A1
ATOM	63 64	C	THR	10	18.074	30.409	21.053	1.00 38.98	Al
ATOM	65	0	THR	. 10	17.705	29.273	20.707	1.00 38.16	Al
ATOM	66	N	GLU	11	18.303	30.762	22.311	1.00 39.04	A1
ATOM	67	CA CB	GLU	11	18.128	29.873	23.458	1.00 39.06	A1
ATOM	68	CG	GLU	11	18.697	30.562	24.706	1.00 40.96	Al
ATOM	69	CD	GLU	11 11	20.091	31.151	24.425	1.00 44.69	A1
ATOM	70		GLU	11	20.728 20.543	31.947	25.576	1.00 47.14	Al
ATOM	71	OE2		11	21.434	33.201	25.664	1.00 47.18	Al
ATOM	72	C.	GLU	11	16.634	31.302	26.391	1.00 49.53	Al
ATOM	73	ō	GLU	11	15.819	29.571 30.487	23.662	1.00 37.28	A1
ATOM	74	N	LEU	12	16.296	28.287	23.748	1.00 35.93	A1
ATOM	75	CA	LEU	12	14.929	27.816	23.677 23.913	1.00 35.49	Al
ATOM	76	CB	LEU	12	14.929	26.279	24.073	1.00 36.05	Al
ATOM	77	CG	LEU	12	14.421	25.319	23.017	1.00 36.45	Al
ATOM	78	CD1	LEU	12	14.235	23.997	23.690	1.00 37.15 1.00 37.38	Al
ATOM	79		LEU	12	13.096	25.759	22.439	1.00 37.38	A1
MOTA	80	C	LEU	12	14.254	28.379	25.179	1.00 37.94	Al
MOTA	81	0	LEU	12	13.059	28.765	25.161	1.00 36.02	Al
MOTA	82	N	ALA	13	14.998	28.370	26.289	1.00 35.85	Al Al
MOTA	83	CA	ALA	· 13	14.455	28.819	27.586	1.00 37.01	
MOTA	84	CB	ALA	13	15.543	28.726	28.723	1.00 37.35	Al Al
MOTA	85	C	ALA	13	13.903	30.209	27.518	1.00 37.53	A1
ATOM	86	0	ALA	13	12.893	30.486	28.116	1.00 37.21	A1
ATOM	87	N	ARG	14	14.550	31.087	26.772	1.00 38.91	Al
MOTA	88	CA	ARG	14	14.041	32.440	26.670	1.00 40.95	Al
MOTA	89	CB	ARG	14	15.044	33.320	25.940	1.00 41.35	Al
ATOM	90	CG	ARG	14	16.138	33.808	26.853	1.00 43.91	Al
ATOM	91	CD	ARG	14	16.385	35.294	26.635	1.00 44.07	, A1
MOTA	92	ne	ARG	14	17.184	35.440	25.443	1.00 44.98	Al
MOTA	93	CZ	ARG	14	17.473	36.595	24.859	1.00 45.66	A1
ATOM	94		ARG	14	17.033	37.741	25.356	1.00 45.42	Al
ATOM	95		ARG	14	18.192	36.586	23.746	1.00 45.86	A1
ATOM	96	C	ARG	14	12.679	32.515	25.986	1.00 42.15	A1
ATOM	97	0	ARG	14	11.887	33.419	26.262	1.00 41.07	A1
ATOM	98	И	ILE	15	12.398	31.578	25.077	1.00 43.69	A1
ATOM	99	CA	ILE	15	11.088	31.604	24.409	1.00 45.37	A1
ATOM	100	CB	ILE	15	11.022	30.801	23.055	1.00 44.97	A1
ATOM ATOM	101		ILE	15	9.634	30.994	22.442	1.00 44.72	Al
ATOM	102		ILE	15	12.119	31.219	22.074	1.00 44.89	Al
ATOM	103		ILE	15	11.983	32.621	21.518	1.00 45.11	Al
ATOM	104	C	ILE	15	10.125	30.881	25.330	1.00 46.54	Al
ATOM	105	0	ILE	15	8.955	31.170	25.337	1.00 46.55	Al
ALOM	106	N	ALA	16	10.613	29.897	26.073	1.00 48.62	Al

MOTA	107	CA	ALA	16	9.710	29.148	26.928	1.00 51.99	Al
ATOM	108	CB	ALA	16	10.375	27.891	27.447	1.00 51.52	Al
ATOM	109	C	ÄLA	16	9.247	30.000	28.084	1.00 54.29	Al
MOTA	110	0	ALA	16	8.119	29.878	28.544	1.00 55.04	A1
ATOM	111	И	SER	17	10.122	30.877	28.545	1.00 56.66	A1
MOTA	112	CA	SER	17	9.797	31.752	29.653	1.00 58.77	A1
MOTA	113	CB	SER	17	11.064	32.402	30.169	1.00 58.15	A1
MOTA	114	OG	SER	17	11.864	31.409	30.758	1.00 58.99	Al
ATOM	115	C	SER	17	8.807	32.836	29.283	1.00 60.67	A1
MOTA	116	0	SER	17	9.034	34.013	29.587	1.00 61.61	A1
ATOM	117	N	MET	18	7.719	32.463	28.620	1.00 61.88	Al
ATOM	118	CA	MET	18	6.711	33.457	28.252	1.00 63.20	A1
ATOM	119	CB	MET	18	6.411	33.397	26.760	1.00 63.45	A1
ATOM	120	CG	MET	18	7.629	33.473	25.982	1.00 63.73	A1
ATOM	121	SD	MET	18	8.431	34.930	26.488	1.00 64.97	A1
ATOM ATOM	122	CE	MET	18	8.882	35.588	24.735	1.00 64.08	A1
ATOM	123 124	C 0	MET MET	18 18	5.434	33.205	28.994	1.00 63.31	A1
ATOM	125	N	ALA	19	4.815	34.127	29.506	1.00 63.03	A1
ATOM	126	CA	ALA	19	5.054 3.827	31.933	29.017	1.00 64.24	A1
ATOM	127	CB	ALA	19	4.036	31.469 31.349	29.670	1.00 65.18	A1
ATOM	128	C	ALA	19	2.685	32.425	31.198	1.00 65.29	A1
ATOM	129	0	ALA	19	1.899	32.199	28.419	1.00 65.24 1.00 66.10	A1
ATOM	130	И	GLY	20	2.606	33.507	30.110	1.00 64.64	A1
ATOM	131	CA	GLY	20	1.548	34.460	29.857	1.00 64.64	A1 A1
ATOM	132	C	GLY	20	1.725	35.165	28.534	1.00 63.02	Al
ATOM	133	ō	GLY	20 .	0.789	35.248	27.741	1.00 64.04	A1
ATOM	134	N	ALA	21	2.943	35.638	28.288	1.00 61.60	Al
ATOM	135	CA	ALA	21	3.280	36.392	27.085	1.00 59.98	Al
ATOM	136	CB	ALA	21	4.525	37.225	27.378	1.00 59.25	Al
ATOM	137	c	ALA	21	3.453	35.663	25.725	1.00 59.06	A1
ATOM	138	ō	ALA	21	3.425	36.310	24.675	1.00 58.46	A1
ATOM	139	N	GLN	22	3.612	34.339	25.722	1.00 57.78	Al
ATOM	140	CA	GLN	·22	3.861	33.642	24.461	1.00 56.31	A1
ATOM	141	CB	GLN	22	4.120	32.160	24.707	1.00 56.11	Al
ATOM	142	CG	GLN	22	4.701	31.498	23.464	1.00 54.61	A1
ATOM	143	CD	GLN	22	5.154	30.063	23.674	1.00 54.11	A1
ATOM	144	OE1	GLN	22	4.417	29.108	23.357	1.00 52.66	A1
MOTA	145	NE2	GLN	22	6.384	29.901	24.212	1.00 52.51	A1
ATOM	146	C	GLN	22	2.877	33.786	23.305	1.00 55.31	A1
MOTA	147	0	GLN	22	3.279	33.751	22.136	1.00 54.38	Al
MOTA	148	N	LYS	23	1.599	33.950	23.625	1.00 54.54	A1
ATOM	149	CA	LYS	23	0.587	34.102	22.597	1.00 53.74	. A1
MOTA	150	CB	LYS	23	-0.816	34.126	23.192	1.00 54.52	A1
ATOM	151	CG	LYS	23	-1.908	34.428	22.158	1.00 55.45	A1
ATOM	152	CD	LYS	23	-3.280	34.438	22.820	1.00 56.61	A1
.ATOM	153	CE	LYS	23	-4.342	35.093	21.932	1.00 57.55	Al
ATOM	154	NZ	LYS	23	-4.631	34.292	20.715	1.00 58.20	A1
MOTA	155	C	LYS	23	0.795	35,387	21.819	1.00 52.72	A1
MOTA	156	0	LYS	23	0.775	35.377	20.578	1.00 52.28	Al
ATOM	157	N	ARG	24	0.966	36.494	22.530	1.00 50.67	Al
ATOM	158	CA	ARG	24	1.151		21.811	1.00 49.83	Al
ATOM	159	CB	ARG	24	1.027	38.929	22.746	1.00 52.03	Al
ATOM	160	CG	ARG	24	-0.442	39.179	23.140	1.00 54.86	Al
ATOM	161	CD	ARG	24	-0.689	40.544	23.779	1.00 57.57	A1
ATOM	162	NE	ARG	24	-0.708	41.626	22.799	1.00 59.50	Al
MOTA	163	CZ	ARG	24	0.284	42.496	22.638	1.00 60.97	A1

MOTA	164	NHl	ARG	24	1.378	42.411	23.403	1.00 61.46	A1
ATOM	165	NH2		24	0.179	43.448	21.714	1.00 61.28	Al
ATOM	166	C	ARG	24	2.473	37.735	21.070	1.00 47.89	Al
MOTA	167	0	ARG	24	2.596	38.349	20.014	1.00 47.33	A1
ATOM	168	И	PHE	25	3.456	37.039	21.622	1.00 45.04	A1
MOTA	169	CA	PHE	25	4.748	36.965	20.992	1.00 42.60	A1
MOTA	170	CB	PHE	25	5.757	36.301	21.927	1.00 41.19	A1
ATOM	171	CG	PHE	25	7.107	36.071	21.294	1.00 39.72	A1
MOTA	172		PHE	25	7.945	37.133	21.010	1.00 39.39	A1
ATOM	173	CD2	PHE	25	7.538	34.791	21.010	1.00 39.13	A1
ATOM	174	CEI	PHE	25	9.198	36.924	20.460	1.00 39.53	A1
ATOM	175	CE2	PHE	25	8.776	34.578	20.469 20.187	1.00 39.73 1.00 39.05	Al Al
ATOM	176	cz	PHE	25	9.616	35.648		1.00 39.05	A1
MOTA	177	C	PHE	25	4.617 5.236	36.143 36.459	19.701 18.664	1.00 41.56	A1
MOTA	178	0	PHE	25	3.824	35.078	19.771	1.00 40.74	Al
ATOM	179	N	ALA	26 26	3.635	34.237	18.597	1.00 40.86	A1
ATOM	180	CA CB	ALA ALA	26 26	2.786	32.993	18.948	1.00 39.28	Al
ATOM	181		ALA	26	2.965	35.034	17.463	1.00 40.94	Al
ATOM	182 183	0	ALA	26	3.380	34.940	16.293	1.00 40.38	Al
ATOM ATOM	184	и	GLU	27	1.940	35.802	17.821	1.00 40.51	Al
ATOM	185	CA	GLU	27	1.198	36.598	16.870	1.00 41.68	Al
ATOM	186	CB	GLU	27	-0.003	37.269	17.537	1.00 44.31	Al
ATOM	187	CG	GLU	27	-1.076	36.311	18.027	1.00 49.27	A1
ATOM	188	CD	GLU	27	-2.143	36.968	18.903	1.00 52.19	A1
ATOM	189	OE1		27	-1.939	38.106	19.431	1.00 53.39	A1
ATOM	190		GLU	27	-3.196	36.314	19.081	1.00 54.05	Al
ATOM	191	C	GLU	27	2.059	37.672	16.245	1.00 40.55	Al
ATOM	192	ō	GLU	27	1.819	38.065	15.125	1.00 41.26	A1
ATOM	193	N	ARG	28	3.043	38.172	16.971	1.00 39.83	Al
ATOM	194	CA	ARG	28	3.907	39.216	16.433	1.00 39.44	Al
ATOM	195	СВ	ARG	28	4.712	39.897	17.558	1.00 39.37	A1
ATOM	196	CG	ARG	28	5.203	41.267	17.199	1.00 40.38	A1
ATOM	197	CD	ARG	28	6.175	41.850	18.199	1.00 42.61	A1
ATOM	198	NE	ARG	28	6.730	43.108	17.671	1.00 45.42	A1
ATOM	199	CZ	ARG	28	6.148	44.304	17.774	1.00 46.09	Al
MOTA	200	NHI	ARG	28	4.980	44.429	18.417	1.00 46.55	Al
ATOM	201	NH2	2 ARG	28	6.699	45.370	17.184	1.00 46.78	Al
MOTA	202	C	ARG	28	4.901	38.628	15.428	1.00 38.17	Al
MOTA	203	0	ARG	28	5.202	39.233	14.423	1.00 37.71	Al
ATOM	204	N	ILE	29	5.344	37.416	15.728	1.00 37.47	A1
ATOM	205	CA	ILE	29	6.364	36.675	14.989	1.00 37.22	, A1
MOTA	206	CB	ILE	29	7.140	35.756		1.00 38.04	A1
ATOM .	207		2 ILE	29	8.353	35.033			Al
ATOM	208		LILE	29	7.740	36.634			Al
MOTA	209		LILE		8.363	37.896			A1
MOTA	210	C	ILE	29	5.937				A1
ATOM	211	0	ILE	29	6.646				A1
MOTA	212	И	LEU	30	4.760				A1
ATOM	213	CA		30	4.285				A1
MOTA	214	CB		30	3.627				A1
ATOM	215	CG		30	4.509				Al
ATOM	216		1 LEU	30	3.813				Al
ATOM	217		2 LEU	30	5.894				A1
ATOM	218	C	LEU	30	3.322				A1
ATOM	219		LEU	-30	2.576				A1
ATOM	220	N	THR	31	3.338	34.325	10.678	1.00 33.02	Al

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ATOM	221	CA	THR	31	2.369	34.702	9.662	1.00 33.03	A1
ATOM	222	CB	THR	31	2.847	34.320	8.247	1.00 31.42	A1
ATOM	223	OG1		31	3.043	32.896	8.180	1.00 28.99	A1
ATOM	224	CG2		31	4.120	35.093	7.903	1.00 28.16	A1
ATOM	225	C	THR	31	1.108	33.863	9.996	1.00 33.87	Al
ATOM	226	0	THR	31	1.130	33.022	10.924	1.00 32.70	Al
ATOM	227	N	ALA	32	0.042	34.064	9.211	1.00 34.24	A1
ATOM	228	CA	ALA	32	-1.226	33.341	9.401	1.00 34.08	A1
ATOM ATOM	229	CB	ALA	32	-2.259	33.767	8.340	1.00 34.11	Al
ATOM	230 231	С 0	ALA	32	-1.056	31.816	9.352	1.00 33.63	A1
ATOM	232	И	ALA SER	32 33	-1.506	31.094	10.258	1.00 33.02	A1
ATOM	233	CA	SER	33	-0.421	31.306	8.303	1.00 33.11	A1
ATOM	234	CB	SER	33	-0.279	29.854	8.239	1.00 32.41	A1
ATOM	235	OG	SER	33	0.204 1.557	29.411 29.762	6.884	1.00 31.81	A1
ATOM	236	C	SER	33	0.675	29.762	6.706	1.00 33.87	A1
ATOM	237	ō	SER	33	0.516	28.143	9.296 9.700	1.00 32.48	A1
ATOM	238	N	GLU	34	1.653	30.100	9.736	1.00 32.22 1.00 31.47	A1
ATOM	239	CA	GLU	34	2.591	29.616	10.750	1.00 31.47	A1
ATOM	240	СВ	GLU	34	3.806	30.539	10.750	1.00 32.82	A1
ATOM	241	CG	GLU	34	4.740	30.472	9.705	1.00 32.38	Al Al
ATOM	242	CD	GLU	34	5.726	31.605	9.716	1.00 34.32	Al
ATOM	243		GLU	34	5.342	32.743	10.078	1.00 36.26	Al
ATOM	244	OE2	GLU	34	6.877	31.352	9.349	1.00 34.55	A1
ATOM	245	C	GLU	34	1.893	29.482	12.104	1.00 32.92	A1
ATOM	246	0	GLU	34	2.113	28.522	12.821	1.00 33.23	Al
ATOM	247	N	LEU	35	1.042	30.445	12.407	1.00 33.04	A1
ATOM	248	CA	LEU	35	0.296	30.458	13.639	1.00 34.42	A1
ATOM	249	CB	LEU	35	-0.535	31.724	13.721	1.00 35.37	A1
ATOM	250	CG	LEU.	35	-0.151	33.010	14.442	1.00 36.15	Al
ATOM	251		LEU	35	-1.425	33.899	14.346	1.00 34.90	A1
ATOM	252		LEU	35	0.223	32.778	15.929	1.00 34.49	A1
ATOM	253	C	LEU	35	-0.643	29.237	13.764	1.00 34.43	A1
ATOM	254	0	LEU	35	-0.785	28.684	14.855	1.00 33.54	A1
ATOM	255	N	ASP	36	-1.286	28.862	12.650	1.00 33.79	A1
ATOM	256	CA	ASP	36	-2.192	27.710	12.582	1.00 33.66	Al
ATOM	257	CB	ASP	36	-2.764	27.472	11.161	1.00 33.07	A1
ATOM	258	CG	ASP	36	-3.803	28.533	10.727	1.00 34.30	Al
MOTA MOTA	259	OD1		36	-4.410	29.136	11.612	1.00 33.98	A1
ATOM	260 261	OD2		36	-4.048	28.748	9.492	1.00 33.61	A1
ATOM	262	0	asp asp	36	-1.397	26.468	12.935	1.00 34.25	A1
ATOM	263	N	GLN	36 37	-1.900 -0.152	25.564	13.582	1.00 34.41	, A1
ATOM	264	CA	GLN	37	0.652	26.398	12.494	1.00 35.24	A1
ATOM	265	СВ	GLN	3 <i>7</i> 37	1.939	25.202	12.793	1.00 36.17	A1
ATOM	266	CG	GLN	37	1.671	25.189	11.972	1.00 35.40	A1
ATOM	267	CD	GLN	37	2.956	25.154 25.046	10.533	1.00 38.15	A1
ATOM	268	OE1		37	3.812	24.195	9.717 10.009	1.00 40.58 1.00 43.09	A1
ATOM	269	NE2		37	3.095	25.889	8.696	1.00 43.09	Al
ATOM	270	C	GLN	37	1.003	25.162	14.254	1.00 37.84	A1
ATOM	271	Ō	GLN	37	1.003	24.095	14.254	1.00 35.48	A1 A1
ATOM	272	N	TYR	38	1.269	26.346	14.790	1.00 34.97	A1
ATOM	273	CA	TYR	38	1.669	26.510	16.176	1.00 34.85	A1
ATOM	274	CB	TYR	38	2.143	27.952	16.370	1.00 33.46	Al
ATOM	275	CG	TYR	38	2.273	28.458	17.781	1.00 32.73	Al
ATOM	2.76	CD1		38	1.208	29.115	18.405	1.00 32.82	Al
ATOM	277	CE1		38	1.348	29.645	19.682	1.00 34.21	Al

MOTA	278	CD2	TYR	38	3.463	28.341	18.465	1.00 31.00	Al
MOTA	279	CE2	ŢYR	38	3.620	28.873	19.744	1.00 33.46	Al
MOTA	280	CZ	TYR	38	2.577	29.522	20.346	1.00 34.00	Al
ATOM	281	OH	TYR	38	2.761	30.111	21.570	1.00 37.22	Al
ATOM	282	С	TYR	38	0.564	26.117	17.130	1.00 36.15	Al
ATOM	283	0	TYR	38	0.804	25.382	18.089	1.00 35.82	Al
ATOM	284	N	TYR	39	-0.662	26.546	16.849	1.00 37.88	Al
ATOM	285	CA	TYR	39	-1.782	26.204	17.725	1.00 39.63	Al
ATOM	286	CB	TYR	39	-3.037	27.013	17.357	1.00 39.03	Al
ATOM	287	CG	TYR	39	-2.913	28.438	17.829	1.00 39.74	Al
ATOM	288	CD1		39	-2.533	28.713	19.154	1.00 40.42	Al
ATOM	289	CE1	TYR	39	-2.338	30.051	19.600	1.00 41.11	Al
ATOM	290	CD2	TYR	39	-3.108	29.523	16.956	1.00 39.84	Al
MOTA	291	CE2	TYR	39	-2.923	30.852	17.384	1.00 39.73	A1
ATOM	292	CZ	TYR	39	-2.538	31.112	18.721	1.00 41.24	Al
ATOM	293	ОН	TYR	3.9	-2.435	32.412	19.217	1.00 41.44	A1
ATOM	294	C	TYR	39	-2.062	24.720	17.762	1.00 40.63	A1
ATOM	295	0	TYR	39	-2.604	24.206	18.747	1.00 42.50	A1
ATOM	296	N	ALA	40	-1.665	24.017	16.716	1.00 41.27	Al
ATOM	297	CA	ALA	40	-1.847	22.573	16.649	1.00 41.86	Al
ATOM	298	CB	ALA	40	-1.759	22.100	15.196	1.00 41.73	Al
ATOM	299	C	ALA	40	-0.789	21.837	17.473	1.00 41.73	Al
ATOM	300	ō	ALA	40	-0.908	20.618	17.703	1.00 43.10	A1
ATOM	301	N	LEU	41	0.252	22.539	17.927	1.00 42.81	A1
ATOM	302	CA	LEU	41	1.301	21.833	18.650	1.00 42.81	Al
ATOM	303	CB	LEU	41	2.665	22.466	18.339	1.00 42.41	A1
ATOM	304	CG	LEU	41	3.140	22.361	16.875	1.00 43.61	A1
ATOM	305		LEU	41	4.395	23.238	16.638	1.00 41.82	Al
ATOM	306		LEU	41	3.425	20.898	16.550	1.00 41.82	
ATOM	307	C	LEU	41	1.126	21.698	20.170	1.00 42.93	Al Al
ATOM	308	o	LEU	41	0.363	22.432	20.778	1.00 42.93	Al
ATOM	309	И	SER	42	1.859	20.733	20.778		
ATOM	310	CA	SER	42	1.885	20.733	20.748	1.00 43.71 1.00 44.05	Al
ATOM	311	CB	SER	42	2.659				A1
ATOM	312	OG	SER	42	4.019	19.246 19.536	22.461 22.239	1.00 43.73 1.00 44.18	A1 - A1
ATOM	313	C	SER	42					
ATOM	314	0	SER	42	2.684 3.416	21.644 22.292	22.763	1.00 44.62	A1
ATOM	315	N					22.028	1.00 44.29	Al
ATOM	316		GLU GLU	43	2.603	21.884	24.068	1.00 45.05	A1
		CA		43	3.332	23.019	24.607	1.00 45.94	Al
MOTA MOTA	317	CB	GLU	43	2.971	23.259	26.071	1.00 48.60	A1
	318	CG	GLU	43	1.444	23.613	26.267	1.00 52.40	Al
ATOM	319	CD	GLU	43	0.995	24.887	25.505	1.00 54.53	Al
ATOM ATOM	320 321		GLU	43	1.696	25.925	25.631	1.00 55.13	· A1
			GLU	43	-0.062	24.845	24.800	1.00 55.25	Al
ATOM	322	C	GLU	43	4.848	23.048	24.432	1.00 44.63	A1
ATOM	323	0	GLU	43	5.401	24.132	24.209	1.00 44.60	Al
ATOM	324	N	ALA	44	5.523	21.902	24.531	1.00 43.03	Al
ATOM	325	CA	ALA	44	6.981	21.880	24.350	1.00 42.00	A1
ATOM	326	CB	ALA	44	7.581	20.509	24.772	1.00 42.03	Al
ATOM	327	C	ALA	44	7.253	22.130	22.850	1.00 41.00	A1
ATOM	328	0	ALA	44	8.188	22.836	22.483	1.00 40.92	A1
ATOM	329	И	ARG	45	6.415	21.548	21.996	1.00 39.12	Al
ATOM	330	CA	ARG	45	6.575	21.735	20.588	1.00 38.05	Al
ATOM	331	CB	ARG	45	5.695	20.782	19.825	1.00 39.12	A1
ATOM	332	CG	ARG	45	6.067	19.368	20.050	1.00 42.02	Al
ATOM	333	CD	ARG	45	7.460	19.066	19.559	1.00 45.74	A1
ATOM	334	NE	ARG	45	7.673	19.650	18.247	1.00 49.41	A1

ATOM	335	CZ	ARG	45	8.773	19.489	17.522	1.00 51.27	
ATOM	336	NH1	ARG	45	9.776	18.733	17.986	1.00 51.27	A1
ATOM	337	NH2	ARG	45	8.884	20.129	16.351	1.00 51.44	A1
ATOM	338	С	ARG	45	6.305	23.174	20.185	1.00 36.52	A1
ATOM	339	0	ARG	45	6.871	23.626	19.211	1.00 35.32	A1
ATOM	340	N	LYS	46	5.480	23.896	20.929	1.00 34.62	A1
ATOM	341	CA	LYS	46	5.249	25.294	20.610	1.00 34.82	Al
ATOM	342	CB	LYS	46	4.171	25.906	21.474	1.00 34.21	Al
ATOM	343	CG	LYS	46	2.738	25.639	21.025	1.00 35.37	A1
ATOM	344	CD	LYS	46	1.803	26.461	21.025		A1
ATOM	345	CE	LYS	46	0.356	26.339	21.546	1.00 35.71	Al
ATOM	346	NZ	LYS	46	-0.432	27.391		1.00 37.07	Al
ATOM	347	C	LYS	46	6.524	26.132	22.270 20.803	1.00 37.31	A1
ATOM	348	ō	LYS	46	6.812	27.016		1.00 33.86	A1
ATOM	349	И	ASN	47	7.278	25.865	20.004	1.00 32.48	A1
ATOM	350	CA	ASN	47	8.477	26.646	21.871	1.00 33.74	A1
ATOM	351	CB	ASN	47	9.005	26.388	22.098	1.00 34.19	Al
ATOM	352	CG	ASN	47	7.983	26.734	23.480	1.00 35.68	A1
ATOM	353	OD1		47	7.324		24.497	1.00 39.69	A1
ATOM	354		ASN	47	7.802	27.795 25.867	24.363	1.00 41.09	A1
ATOM	355	C	ASN	47	9.553		25.513	1.00 38.62	A1
ATOM	356	0	ASN	47		26.396	21.065	1.00 32.89	A1
ATOM	357	И	GLU	48	10.276	27.324	20.693	1.00 30.94	A1
ATOM	358	CA	GLU	48	9.656	25.138	20.629	1.00 31.98	Al
ATOM	359	CB	GLU	48	10.642	24.769	19.638	1.00 32.98	A1
ATOM	360	CG	GLU	48	10.629	23.269	19.413	1.00 35.91	Al
ATOM	361	CD	GLU	(11.585	22.498	20.276	1.00 41.51	Al
ATOM	362	OE1		48 48	11.124	21.078	20.397	1.00 44.62	A1
ATOM	363	OE2	_		10.860	20.463	19.319	1.00 45.75	A1
ATOM	364	C	GLU	48	11.009	20.603	21.568	1.00 46.32	Al
ATOM	365	0	GLU	48	10.346	25.455	18.301	1.00 31.14	A1
ATOM	366	И		48	11.241	26.036	17.676	1.00 31.58	A1
ATOM	367	_	PHE	49	9.087	25.344	17.892	1.00 28.29	A1
MOTA		CA	PHE	49	8.574	25.895	16.666	1.00 26.99	A1
ATOM	368	CB	PHE	49	7.059	25.633	16.566	1.00 26.28	Al
ATOM	369	CG	PHE	49	6.461	26.100	15.286	1.00 25.52	A1
ATOM	370		PHE	49	6.587	25.339	14.120	1.00 26.28	A1
ATOM	371		_	49	5.823	27.313	15.212	1.00 24.67	A1
ATOM	372		PHE	49	6.071	25.798	12.878	1.00 25.84	A1
	373	CE2		49	5.303	27.773	13.960	1.00 26.00	Al
ATOM	374	cz	PHE	49	5.440	26.994	12.800	1.00 24.44	A1
ATOM	375	C	PHE	49	8.827	27.399	16.672	1.00 26.54	A1
ATOM	376	0	PHE	49	9.327	27.949	15.700	1.00 24.86	, Al
ATOM	377	N	LEU	50	8.504	28.034	17.794	1.00 25.76	Al
ATOM	378	CA	LEU	50	8.667	29.452	17.929	1.00 26.80	A1
ATOM	379	CB	LEU	50	8.013	29.905	19.205	1.00 26.47	A1
ATOM	380	CG	LEU	50	7.184	31.173	19.245	1.00 26.96	Al
ATOM	381		LEU	50	6.188	31.085	18.097	1.00 28.27	Al
ATOM	382		LEU	50	6.427	31.298	20.634	1.00 26.53	Al
ATOM	383	C	LEU	50	10.132	29.899	17.920	1.00 27.42	A1
ATOM	384	0	LEU	50	10.477	30.897	17.298	1.00 28.25	A1
ATOM	385	N	ALA	51	11.008	29.164	18.577	1.00 26.72	A1
ATOM	386	CA	ALA	51	12.399	29.586	18.589	1.00 26.62	Al
ATOM	387	CB	ALA	51	13.161	28.786	19.583	1.00 24.82	Al
ATOM	388	C	ALA	51	13.009	29.369	17.187	1.00 26.71	A1
ATOM	389	0	ALA	51	13.871	30.115	16.785	1.00 26.84	A1
ATOM	390	N	GLY	52	12.564	28.333	16.475	1.00 26.28	Al
ATOM	391	CA	GLY	52	13.120	28.049	15.160	1.00 27.58	A1

ATOM	392	C	GLY	52	12.723	29.141	14.167	3 00 00 10	
ATOM	393	0	GLY	52	13.537	29.588	13.353	1.00 27.43	A1
ATOM	394	N	ARG	53	11.468	29.577	14.259	1.00 27.16	A1
ATOM	395	CA	ARG	53	10.963	30.626	13.382	1.00 27.33	A1
ATOM	396	CB	ARG	53	9.416	30.743	13.502	1.00 28.47 1.00 28.93	A1
ATOM	397	CG	ARG	53	8.635	29.550	12.916	1.00 28.93	Al
ATOM	398	CD	ARG	53	8.966	29.452	11.454	1.00 31.06	A1
ATOM	3.99	NE	ARG	53	7.949	28.823	10.619	1.00 33.23	A1
ATOM	400	CZ	ARG	53	7.853	27.509	10.417	1.00 34.64	A1
ATOM	401	NHI	L ARG	53	8.712	26.691	11.017	1.00 34.64	A1
MOTA	402	NH	2 ARG	53	6.959	27.037	9.551	1.00 33.41	A1
MOTA	403	C	ARG	53	11.647	31.989	13.724	1.00 32.33	Al
ATOM	404	0	ARG	53	11.960	32.741	12.810	1.00 27.77	A1
ATOM	405	N	PHE	54	11.847	32.294	15.011	1.00 25.56	Al
ATOM	406	CA	PHE	54	12.470	33.544	15.395	1.00 25.41	A1
ATOM	407	CB	PHE	54	12.419	33.737	16.937	1.00 25.84	A1
ATOM	408	CG	PHE	54	13.035	35.038	17.412	1.00 26.15	A1 A1
ATOM	409		PHE	54	14.326	35.068	17.855	1.00 25.57	A1
ATOM	410	CD2	PHE	54	12.335	36.247	17.285	1.00 27.42	A1
ATOM	411	CE1	PHE	54	14.962	36.279	18.163	1.00 27.84	A1
MOTA	412	CE2	PHE	54	12.931	37.477	17.589	1.00 27.70	Al
ATOM	413	CZ	PHE	54	14.245	37.507	18.023	1.00 29.21	Al
ATOM	414	C	PHE	54	13.918	33.499	14.883	1.00 25.07	A1
MOTA	415	0	PHE	54	14.416	34.481	14.315	1.00 24.66	A1
ATOM	416	N	ALA	55	14.589	32.354	15.061	1.00 24.76	A1
ATOM	417	CA	ALA	55	15.960	32.232	14.566	1.00 24.79	A1
ATOM	418	CB	ALA	55	16.565	30.896	14.966	1.00 23.37	Al
ATOM	419	C	ALA	55	16.000	32.384	13.036	1.00 24.40	Al
ATOM	420	0	ALA	5 5	16.761	33.188	12.506	1.00 25.92	Al
MOTA	421	N	ALA	56	15.201	31.612	12.332	1.00 23.65	A1
MOTA	422	CA	ALA	56	15.178	31.705	10.873	1.00 23.88	Al
ATOM	423	CB	ALA	56	14.184	30.759	10.314	1.00 21.79	Al
ATOM	424	C	ALA	56	14.885	33.113	10.391	1.00 24.13	Al
ATOM	425	0	ALA	56	15.510	33.572	9.449	1.00 24.31	Al
ATOM	426	N	LYS	57	13.974	33.816	11.060	1.00 24.20	A1
ATOM	427	CA	LYS	57	13.613	35.168	10.647	1.00 25.22	A1
ATOM	428	CB	LYS	57	12.217	35.576	11.224	1.00 25.77	A1
ATOM	429	CG	LYS	57	11.047	34.738	10.632	1.00 24.59	Al
ATOM	430	CD	LYS	57	9.646	35.359	10.830	1.00 24.83	Al
ATOM	431	CE	LYS	57	8.552	34:359	10.417	1.00 25.92	Al
ATOM	432	NZ	LYS	57	7.084	34.830	10.452	1.00 26.32	Al
ATOM	433	C	LYS	57	14.633	36.214	11.026	1.00 26.40	Al
ATOM ATOM	434	0	LYS	57	14.705	37.245	10.355	1.00 26.87	Al
	435	И	GLU	58	15.351	36.000	12.147	1.00 26.28	A1
ATOM ATOM	436	CA	GLU	58	16.384	36.941	12.581	1.00 26.02	A1
ATOM	437	CB	GLU	58	16.871	36.639	13.992	1.00 27.63	Al
	438	CG	GLU	58	15.889	37.012	15.062	1.00 30.56	A1
ATOM ATOM	439	CD	GLU	58	15.832	38.528	15.219	1.00 32.92	A1
ATOM	440		GLU	58	16.876	39.092	15.600	1.00 34.30	Al
ATOM	441 442		GLU	58	14.775	39.151	14.929	1.00 33.64	A1
ATOM		C	GLU	58	17.553	36.768	11.611	1.00 25.11	A1
ATOM	443	0	GLU	58	18.159	37.739	11.168	1.00 24.66	Al
ATOM	444	N	ALA	59	17.865	35.529	11.276	1.00 24.85	Al
ATOM	445	CA	ALA	59	18.928	35.272	10.327	1.00 23.99	Al
ATOM	446	CB	ALA	59	19.128	33.764	10.154	1.00 23.99	Al
ATOM	447	0	ALA	59 50	18.606	35.912	8.952	1.00 24.17	A1
	448	J	ALA	59	19.459	36.540	8.315	1.00 21.87	Al

MOTA	449	N	PHE	60	17.370	35.737	8.505	1.00 24.88	A1
ATOM	450	CA	PHE	60	16.968	36.251	7.218	1.00 25.44	Al
ATOM	451	CB	PHE	60	15.521	35.895	6.879	1.00 24.96	A1
MOTA	452	CG	PHE	60	15.037	36.546	5.586	1.00 26.06	Al
ATOM	453	CD1	PHE	60	15.193	35.904	4.363	1.00 25.13	Al
ATOM	454	CD2	PHE	60	14.474	37.831	5.598	1.00 25.99	Al
MOTA	455	CE1	PHE	60	14.804	36.507	3.170	1.00 24.37	A1
MOTA	456	CE2	PHE	60	14.078	38.450	4.391	1.00 25.81	A1
MOTA	457	CZ	PHE	60	14.251	37.766	3.185	1.00 24.62	A1
MOTA	458	C	PHE	60	17.114	37.770	7.207	1.00 27.27	A1
MOTA	459	0	PHE	60	17.691	38.352	6.242	1.00 27.79	Al
ATOM	460	N	SER	61	16.627	38.413	8.260	1.00 27.40	A1
MOTA	461	CA	SER	61	16.721	39.846	8.294	1.00 29.82	A1
MOTA	462	CB	SER	61	16.005	40.461	9.533	1.00 29.61	A1
ATOM	463	OG	SER	61	16.679	40.092	10.727	1.00 31.10	A1
ATOM	464	C	SER	61	18.191	40.242	8.294	1.00 31.09	A1
ATOM	465	0	SER	61	18.517	41.316	7.832	1.00 31.02	A1
ATOM	466	N	LYS	62	19.071	39.389	8.819	1.00 32.53	A1
ATOM	467	CA	LYS	62	20.508	39.723	8.828	1.00 34.06	A1
ATOM	468	CB.	LYS	62	21.307	38.729	9.698	1.00 35.23	A1
ATOM	469	CG	LYS	62	21.305	38.975	11.242	1.00 37.56	A1
ATOM	470	CD	LYS	62	22.349	38.019	11.845	1.00 41.31	A1
ATOM	471	CE	LYS	62	22.427	38.038	13.347	1.00 43.94	A1
ATOM	472	NZ	LYS	62	21.213	37.446	14.089	1.00 46.69	A1
ATOM	473	C	LYS	62 63 ·	21.066	39.710 40.641	7.382	1.00 34.27 1.00 34.53	Al Al
ATOM	474	0	LYS	62 -	21.760	38.649	6.956 6.651	1.00 34.33	A1
MOTA	475	N	ALA	63 63	20.746	38.496	5.297	1.00 33.34	Al
MOTA MOTA	476 477	CA CB	ALA ALA	63	21.177 20.751	37.106	4.756	1.00 32.08	Al
ATOM	478	C	ALA	63	20.751	39.610	4.459	1.00 32.00	A1
ATOM	479	0	ALA	63	21.230	40.142	3.616	1.00 34.33	Al
ATOM	480	и	PHE	64	19.291	39.945	4.700	1.00 35.12	Al
ATOM	481	CA	PHE	64	18.585	40.987	3.955	1.00 35.58	Al
ATOM	482	CB	PHE	64	17.097	41.040	4.371	1.00 33.83	Al
ATOM	483	CG	PHE	64	16.211	41.767	3.393	1.00 32.65	Al
ATOM	484		PHE	64	15.901	41.190	2.164	1.00 32.40	A1
ATOM	485	CD2		64	15.671	43.012	3.708	1.00 32.51	Al
ATOM	486		PHE	64	15.073	41.824	1.274	1.00 32.68	Al
ATOM	487	CE2		64	14.826	43.682	2.829	1.00 32.56	Al
ATOM	488	CZ	PHE	64	14.517	43.085	1.593	1.00 33.86	Al
ATOM	489	C	PHE	64	19.259	42.334	4.236	1.00 36.82	A1
ATOM	490	ŏ	PHE	64	19.007	43.330	3.554	1.00 37.04	Al
ATOM	491	N	GLY	65	20.092	42.350	5.265	1.00 38.68	Al
ATOM	492	CA	GLY	65	20.837	43.542	5.636	1.00 41.46	A1
MOTA	493	C	GLY	65	20.119	44.748	6.216	1.00 43.07	A1
ATOM	494	ō	GLY	65	20.749	45.793	6.427	1.00 42.77	A1
MOTA	495	N	THR	66	18.821	44.628	6.487	1.00 44.10	Al
MOTA	496	CA	THR	66	18.062	45.767	7.032	1.00 45.54	Al
ATOM	497	CB	THR	66	16.769	46.091	6.194	1.00 45.56	A1
ATOM	498	. OG1		66	15.854	44.992	6.288	1.00 46.47	A1
MOTA	499	CG2		66	17.093	46.322	4.730	1.00 45.39	A1
ATOM	500	C	THR	66	17.579	45.503	8.463	1.00 46.31	Al
ATOM	501	0	THR	66	17.262	46.453	9.195	1.00 45.86	A1
MOTA	502	N	GLY	67	17.509	44.221	8.857	1.00 46.67	Al
MOTA	503	CA	GLY	67	16.994	43.912	10.186	1.00 46.27	A1
MOTA	504	C	GLY	67	15.487	44.210	10.210	1.00 46.15	Al
ATOM	505	0	GLY	67	14.938	44.754	9.254	1.00 46.00	Al

MOTA	506	N	ILE	68	14.813	43.892	11.310	1.00 45.81	7.7
MOTA	507	CA	ILE	68	13.380	44.098	11.393	1.00 45.27	Al Al
ATOM	508	CB	ILE	68	12.744	43.185	12.478	1.00 44.45	A1
MOTA	509		ILE	68	11.221	43.417	12.518	1.00 42.62	Al
ATOM	510	CG1		68	13.043	41.716	12.159	1.00 43.31	Al
ATOM	511	CD1		68	12.415	41.217	10.850	1.00 42.83	Al
ATOM	512	C	ILE	68	12.989	45.544	11.650	1.00 45.87	Al
ATOM	513	0	TLE	68	13.490	46.188	12.572	1.00 46.37	Al
ATOM	514	N	GLY	69	12.065	46.047	10.843	1.00 45.69	Al
ATOM	515	CA	GLY	69	11.643	47.426	10.988	1.00 45.78	Al
ATOM ATOM	516	C	GLY	69	10.838	47.891	9.789	1.00 46.78	Al
ATOM	517	0	GLY	69	9.977	47.182	9.252	1.00 46.20	Al
ATOM	518 519	N	ARG	70	11.120	49.108	9.360	1.00 47.73	Al
ATOM	520	CA CB	ARG	70	10.415	49.684	8.236	1.00 48.39	Al
ATOM	521	CG	ARG	70	10.932	51.108	8.026	1.00 51.49	Al
ATOM	522	CD	ARG ARG	70 70	10.084	51.897	7.059	1.00 55.58	A1
ATOM	523	NE	ARG	70 70	10.755	53.199	6.589	1.00 59.37	Al
ATOM	524	CZ	ARG	70	9.972	53.806	5.496	1.00 62.26	A1
ATOM	525	NH1		70 70	9.714	55.111	5.385	1.00 63.78	A1
ATOM	526	_	ARG	70 70	8.985	55.551	4.353	1.00 64.14	A1
ATOM	527	C	ARG	70	10.181 10.499	55.975	6.303	1.00 63.87	A1
ATOM	528	Ö	ARG	70	9.480	48.871	6.914	1.00 47.02	A1
ATOM	529	N	GLN	71	11.705	48.606 48.471	6.250	1.00 46.19	Al
ATOM	530	CA	GLN	71	11.703	47.743	6.532	1.00 45.11	Al
ATOM	531	СВ	GLN	71	13.336	47.854	5.279	1.00 43.56	A1
ATOM	532	CG	GLN	71	13.896	49.308	4.821	1.00 44.43	Al
MOTA	533	CD	GLN	71	15.391	49.319	4.720 4.344	1.00 45.80	A1
ATOM	534	OE1		71	15.764	48.917	3.228	1.00 47.82	A1
ATOM	535	NE2	GLN	71	16.253	49.751	5.276	1.00 48.24 1.00 47.27	Al
ATOM	536	C	GLN	71	11.483	46.275	5.387	1.00 47.27	Al
ATOM	537	0	GLN	71	11.186	45.639	4.395	1.00 42.01	Al
ATOM	538	N	LEU	72	11.425	45.743	6.601	1.00 42.31	A1
MOTA	539	CA	LEU	72	11.117	44.324	6.779	1.00 38.04	Al Al
MOTA	540	CB	LEU	72	12.420	43.528	6.713	1.00 36.85	Al
ATOM	541	CG	LEU	72	12.382	42.017	6.775	1.00 35.82	Al
MOTA	542	CD1	LEU	72	11.605	41.559	5.607	1.00 36.04	A1
MOTA	543	CD2	LEU	72	13.812	41.440	6.753	1.00 35.98	Al
MOTA	544	C	LEU	72	10.400	43.984	8.086	1.00 37.03	A1
MOTA	545	0	LEU	72	10.920	44.215	9.166	1.00 36.11	A1
ATOM	546	·N	SER	73	9.214	43.406	7.980	1.00 36.72	Al
ATOM	547	CA	SER	73	8.461	43.031	9.175	1.00 36.31	. Al
MOTA	548	CB	SER	73	7.003	43.440	9.032	1.00 36.91	Al
MOTA	549	OG	SER	73	6.222	42.756	10.003	1.00 39.16	A1
ATOM	550	C	SER	73	8.518	41.529	9.333	1.00 34.81	A1
MOTA	551	0	SER	73	8.730	40.849	8.353	1.00 34.46	Al
MOTA	552	N	PHE	74	8.368	41.023	10.565	1.00 33.65	Al
ATOM	553	CA	PHE	74	8.342	39.578	10.825	1.00 31.90	A1
MOTA	554	CB	PHE	74	7.948	39.298	12.282	1.00 30.13	Al
ATOM	555	CG	PHE	74	9.046	39.532	13.283	1.00 29.47	Al
ATOM	556	CD1		74	10.153	38.660	13.341	1.00 27.35	A1
ATOM	557 550	CD2		74	8.983	40.633	14.167	1.00 28.21	A1
ATOM	558 550	CE1		74	11.195	38.867	14.254	1.00 28.79	A1
ATOM	559 560	CE2		74	10.021	40.878	15.100	1.00 28.83	A1
MOTA MOTA	560 561	CZ	PHE	74	11.146	39.992	15.160	1.00 29.18	A1
ATOM	561 562	C	PHE	74	7.240	38.948	9.935	1.00 32.18	A1
MION	562	0	PHE	74	7.334	37.801	9.490	1.00 31.91	Al

ATOM	563	N	GLN	76	C 1C0	30			
				75	6.168	39.704	9.731	1.00 32.36	A1
ATOM	.564	CA	GLN	75	5.018	39.257	8.956	1.00 32.59	Al
ATOM	565	CB	GLN	75	3.847	40.223	9.188	1.00 34.01	Al
MOTA	566	CG	GLN	75	3.335	40.256	10.616	1.00 36.12	Al
ATOM	567	CD	GLN	75	2.919	38.876	11.112	1.00 38.23	A1
MOTA	568		GLN	75	3.282	38.496	12.227	1.00 39.11	Al
MOTA	569	NE2	GLN	75	2.148	38.118	10.290	1.00 37.65	Al
ATOM	570	С	GLN	75	5.270	39.153	7.450	1.00 32.64	Al
MOTA	571	0	GLN	75	4.418	38.625		1.00 32.25	A1
ATOM	572	И	ASP	76	6.407	39.681	6.958	1.00 31.97	Al
ATOM	573	CA	ASP	76	6.732	39.636	5.535	1.00 32.18	Al
ATOM	574	CB	ASP	76	7.584	40.808	5.066	1.00 32.18	
ATOM	575	CG	ASP	76	6.939	42.171	5.288		A1
ATOM	576		ASP	76	5.748	42.417		1.00 35.33	A1
ATOM	57 7		ASP	76	7.669		4.914	1.00 35.87	A1
ATOM	578		ASP			43.031	5.842	1.00 36.61	A1
ATOM		C		76 76	7.530	38.395	5.203	1.00 32.20	A1
	579	0	ASP	76	7.811	38.130	4.021	1.00 31.47	Al
ATOM	580	N	ILE	77	7.901	37.632	6.229	1.00 31.49	A1
ATOM	581	CA	ILE	77	8.744	36.421	6.006	1.00 31.71	Al
ATOM	582	CB	ILE	77	10.005	36.477	6.882	1.00 30.86	Al
MOTA	583	CG2		77	10.951	35.376	6.513	1.00 29.76	A1
ATOM	584	CG1	ILE	77	10.629	37.868	6.771	1.00 31.47	Al
ATOM	58 5	CD1	ILE	77	11.497	38.255	7.981	1.00 30.84	Al
MOTA	586	C	ILE	77	8.010	35.164	6.420	1.00 31.37	A1
ATOM	587	0	ILE	7 7	7.504	35.095	7.534	1.00 33.09	A1
ATOM	588	N	GLU	78	7.959	34.169	5.565	1.00 29.65	Al
ATOM	589	CA	GLU	78	7.306	32.952	5.971	1.00 28.49	A1
ATOM	590	CB	GLU	78	5.947	32.856	5.315	1.00 30.42	Al
ATOM	591	CG	GLU	78	5.133	31.599	5.646	1.00 31.45	A1
ATOM	592	CD	GLU	78	3.797	31.681	4.955	1.00 31.43	
ATOM	593		GLU	78	2.890	32.370	5.501		A1
ATOM	594		GLU	78				1.00 34.85	A1
ATOM	59 5				3.656	31.116	3.848	1.00 33.40	A1
		C	GLU	78	8.161	31.740	5.648	1.00 27.82	A1
ATOM	596	0	GLU	78	8.708	31.588	4.535	1.00 28.34	Al
ATOM	597	N	ILE	79	8.322	30.880	6.639	1.00 26.70	A1
ATOM	598	CA	ILE	79	9.097	29.671	6.433	1.00 25.67	A1
ATOM	599	CB	ILE	79	9.902	29.208	7.739	1.00 25.60	Al
ATOM	600	CG2		7,9	10.224	27.693	7.636	1.00 23.34	A1
MOTA	601		ILE	79	11.187	30.053	7.937	1.00 23.66	A1
ATOM	602	CD1		79	10.943	31.531	8.226	1.00 22.51	Al
ATOM	603	C	ILE	79	8.058	28.619	6.131	1.00 26.47	A1
MOTA	604	0	ILE	79	7.055	28.501	6.836	1.00 26.91	. Al
MOTA	605	N	ARG	80	8.258	27.879	5.062	1.00 27.30	Al
ATOM	606	CA	ARG	80	7.350	26.794	4.712	1.00 28.19	Al
ATOM	607	CB	ARG	80	6.641	27.089	3.351	1.00 28.49	A1
ATOM	608	CG	ARG	80	5.673	28.304	3.313	1.00 28.49	Al
ATOM	609	CD	ARG	80	4.975	28.383	1.922	1.00 30.89	Al
ATOM	610	NE	ARG	80	4.356	29.680	1.634	1.00 31.32	A1
ATOM	611	CZ	ARG	80	3.847	30.049	0.460	1.00 31.60	A1
ATOM	612		ARG	80			-0.584	1.00 31.89	Al
	613		ARG		3.865	29.226			
ATOM	614		ARG	80	3.354	31.272	0.320	1.00 31.19	A1
		C		80	8.252	25.547	4.575	1.00 29.13	A1
ATOM	615	0	ARG	80	9.503	25.666	4.493	1.00 27.83	A1
ATOM	616	N	LYS	81	7.636	24.366	4.581	1.00 30.40	Al
MOTA	617	CA	LYS	81	8.358	23.104	4.392	1.00 32.40	Al
ATOM	618	CB	LYS	81	8.193	22.210	5.612	1.00 33.34	Al
ATOM	619	CG	LYS	81	9.194	22.540	6.717	1.00 37.90	A1

ATOM	620			81	9.035	21.611	7.935	1.00 41.46	
ATOM	621			81	10.236		8.948	1.00 41.46	A1
ATOM	622		LYS	81	9.836	_	10.319	1.00 43.94	A1
ATOM	623		LYS	81	7.874		3.126	1.00 33.26	A1
ATOM	624		LYS	81	6.669		2.875	1.00 32.50	A1
ATOM	625		ASP	82	8.791	21.799		1.00 33.89	A1
ATOM	626			82	8.331	21.071	1.185	1.00 36.78	A1 A1
ATOM	627		ASP	82	9.332	21.153	0.011	1.00 37.31	A1
ATOM ATOM	628			82	10.635	20.442	0.269	1.00 38.63	Al
ATOM	629		1 ASP	82	10.690	19.498	1.077	1.00 38.49	Al
ATOM	630 631		2 ASP	82	11.633	20.826	-0.398	1.00 41.14	Al
ATOM	632		ASP	82	7.962	19.627	1.512	1.00 37.29	Al
ATOM	633	N	ASP ALA	82	7.892	19.242	2.676	1.00 36.84	Aı
ATOM	634	CA	ALA	. 83 . 83	7.688	18.840	0.481	1.00 38.27	Al
ATOM	635	CB	ALA	. 83 83	7.281	17.446	0.677	1.00 40.15	A1
ATOM	636	C	ALA	83	7.085	16.751	-0.707	1.00 41.30	A1
ATOM	637	ō	ALA	83	8.261	16.634	1.559	1.00 40.22	A1
ATOM	638	N	ASN	84	7.842 9.554	15.798	2.359	1.00 40.09	A1
ATOM	639	CA	ASN	84	10.607	16.887	1.386	1.00 40.04	A1
ATOM	640	CB	ASN	84	11.908	16.221	2.157	1.00 40.28	A1
MOTA	641	CG	ASN	84	11.773	16.209 15.434	1.345	1.00 41.08	Al
MOTA	642	ODI	LASN	84	12.401	15.778	0.049 -0.966	1.00 42.63	Al
MOTA	643		2 ASN	84	10.957	14.373	0.072	1.00 43.70	A1
MOTA	644	C	ASN	84	10.897	16.895	3.513	1.00 42.72 1.00 39.63	A1
ATOM	645	0	ASN	84	11.838	16.500	4.199	1.00 39.63	Al
MOTA	646	N	GLY	85	10.114	17.899	3.903	1.00 38.52	A1
ATOM	647	CA	GLY	85	10.365	18.584	5.172	1.00 37.04	A1 A1
ATOM	648	C	GLY	85	11.517	19.616	5.151	1.00 36.50	A1
ATOM	649	0	GLY	85	11.921	20.112	6.201	1.00 37.45	A1
ATOM	650	N	LYS	86	12:047	19.933	3.966	1.00 35.00	Al
ATOM	651	CA	LYS	86	13.139	20.921	3.778	1.00 32.22	Al
ATOM	652	CB	LYS	86	13.754	20.797	2.369	1.00 31.49	Al
MOTA MOTA	653	CG	LYS	86	14.854	21.784	2.068	1.00 32.53	Al
ATOM	654	CD	LYS	86	15.943	21.629	3.134	1.00 35.38	A1
ATOM	655 656	CE	LYS	86	17.218	22.403	2.881	1.00 35.96	A1
ATOM	657	NZ	LYS	86	16.966	23.771	3.262	1.00 37.11	A1
ATOM	658	С О	LYS	86	12.456	22.275	3.885	1.00 30.60	Al
ATOM	659	и	LYS PRO	86	11.489	22.523	3.193	1.00 29.77	Al
ATOM	660	CD	PRO	87 87	12.976	23.172	4.727	1.00 29.10	Al
ATOM	661	CA	PRO	87 87	14.082	22.948	5.699	1.00 28.74	, A1
ATOM	662	CB	PRO	87	12.351 12.765	24.486	4.876	1.00 27.83	A1
MOTA	663	CG	PRO	87		24.891	6.297	1.00 27.32	A1
ATOM	664	c	PRO	87	14.256 12.783	24.309	6.370	1.00 27.78	A1
ATOM	665	Ö	PRO	87	13.890	25.517 25.471	3.801	1.00 27.06	A1
ATOM	666	N	TYR	88	11.883	26.395	3.333 3.374	1.00 27.38	Al
ATOM	667	CA	TYR	88	12.248	20.335. 27.448		1.00 25.32	A1
ATOM	668	CB	TYR	88	11.917	27.069	2.411 0.947	1.00 25.06	A1
MOTA	669	CG	TYR	88	10.463	26.735	0.656	1.00 24.22 1.00 23.29	Al
ATOM	670	CD1	TYR	88	9.599	27.704	0.100	1.00 23.29	A1
ATOM	671		TYR	88	8.247	27.406	-0.174	1.00 23.37	A1
ATOM	672	CD2		88	9.952	25.460	0.937	1.00 23.37	A1
MOTA	673		TYR	88	8.615	25.141	0.686	1.00 23.26	A1
ATOM	674	CZ	TYR	88	7.762	26.132	0.126	1.00 25.22	A1 A1
ATOM	675	OH	TYR	88	6.421	25.901	-0.045	1.00 25.22	A1 A1
ATOM	676	C	TYR	- 88	11.520	28.712	2.850	1.00 24.33	A1
									WT.

MOTA	677	0	TYR	88	10.546	28.651	3.582	1.00 23.08	
ATOM	678	N	ILE	89	12.029	29.856	2.443	1.00 24.80	A1
ATOM	679	CA	ILE	89	11.453	31.120	2.833	1.00 24.50	A1
ATOM	680	CB	ILE	89	12.525	32.056	3.375		A1
ATOM	681	CG2		89	12.086	33.554		1.00 24.83	A1
ATOM	682	CG1		89	12.788	31.742	3.208	1.00 24.50	A1
ATOM	683		ILE	89	14.217	32.125	4.864	1.00 24.97	A1
ATOM	684	C	ILE	89			5.316	1.00 25.39	A1
ATOM	685	0	ILE	89	10.809	31.826	1.679	1.00 26.13	A1
ATOM	686	И	ILE		11.378	31.920	0.600	1.00 26.39	Al
ATOM	687			90	9.590	32.304	1.907	1.00 27.30	A1
ATOM	•	CA	ILE	90	8.905	33.116	0.911	1.00 27.73	Al
	688	CB	ILE	90	7.457	32.697	0.679	1.00 27.77	Al
ATOM	689	CG2		90	6.777	33.777	-0.198	1.00 26.69	Al
ATOM	690		ILE	90	7.379	31.283	0.073	1.00 27.36	Al
ATOM	691	CD1		90	8.309	31.055	-1.121	1.00 25.23	Al
MOTA	692	C	ILE	90	8.863	34.461	1.619	1.00 28.64	Al
ATOM	693	0	ILE	90	8.375	34.534	2.750	1.00 28.70	A1
ATOM	694	N	CYS	91	9.368	35.500	0.979	1.00 29.78	A1
ATOM	695	CA	CYS	91	9.394	36.846	1.529	1.00 31.18	A1
ATOM	696	CB	CYS	91	10.822	37.284	1.840	1.00 31.71	A1
ATOM	697	SG	CYS	91	10.958	39.042	2.467	1.00 33.30	Al
MOTA	698	C	CYS	91	8.795	37.798	0.492	1.00 32.78	A1
ATOM	699	0	CYS	91	9.160	37.750	-0.701	1.00 32.93	Al
MOTA	700	N	THR	92	7.890	38.652	0.961	1.00 33.89	A1
ATOM	701	CA	THR	92	7.169	39.654	0.161	1.00 35.68	Al
ATOM	702	CB	THR	92	5.956	40.205	0.980	1.00 35.88	Al
ATOM	703	OG1	THR	92	6.424	40.914	2.147	1.00 35.36	A1
ATOM	704	CG2	THR	92	5.071	39.048	1.463	1.00 35.36	Al
ATOM	705	C	THR	92	8.007	40.867	-0.298	1.00 37.04	A1
ATOM	706	Ō	THR	92	7.635	41.567	-1.234	1.00 37.04	Al
ATOM	707	N	LYS	93	9.132	41.099	0.361	1.00 38.09	
ATOM	708	CA	LYS	93	10.018	42.238	0.091	1.00 38.09	A1
ATOM	709	СВ	LYS	93	10.455	42.236			A1
ATOM	710	CG	LYS	93			1.410	1.00 38.83	A1
ATOM	711	CD	LYS	93	9.355	43.459	2.165	1.00 41.82	A1
ATOM					9.133	44.850	1.659	1.00 43.77	A1
ATOM	712	CE	LYS	93	8.287	45.660	2.603	1.00 45.90	Al
	713	NZ	LYS	93	6.866	45.285	2.448	1.00 48.15	Al
ATOM	714	C	LYS	93	11.277	41.938	-0.700	1.00 39.21	A1
ATOM	715	0	LYS	93	12.037	42.843	-1.033	1.00 38.83	Al
ATOM	716	N	LEU	94	11.495	40.663	-0.980	1.00 40.77	Al
ATOM	717	CA	LEU	94	12.692	40.202	-1.677	1.00 42.19	A1
ATOM	718	CB	LEU	94	13.065	38.808	-1.152	1.00 41.91	. A1
ATOM	719	CG	LEU	94	14.332	38.116	-1.637	1.00 41.65	A1
ATOM	720		LEU	94	15.550	38.970	-1.401	1.00 42.73	A1
ATOM	721		LEU	94	14.464	36.818	-0.891	1.00 41.81	A1
ATOM	722	C	LEU	94	12.467	40.185	-3.186	1.00 43.24	A1
MOTA	723	0	LEU	94	11.555	39.532	-3.688	1.00 42.50	Al
MOTA	724	N	SER	95	13.329	40.899	-3.897	1.00 45.02	Al
ATOM	725	CA	SER	95	13.229	41.029	-5.343	1.00 47.26	Al
ATOM	726	CB	SER	95	13.094	42.524	-5.673	1.00 47.88	A1
MOTA	727	OG	SER	95	13.153	42.763	-7.070	1.00 50.21	A1
ATOM	728	c	SER	95	14.401	40.414	-6.130	1.00 47.86	Al
ATOM	729	ō	SER	95	15.558	40.660	-5.815	1.00 47.15	A1
ATOM	730	N	GLN	96	14.079	39.602	-7.138	1.00 48.90	Al
ATOM	731	CA	GLN	96	15.075			1.00 49.92	A1
ATOM	732	CB	GLN	96		38.957	-8.016	1.00 49.92	
					15.506	39.944	-9.123		Al
MOTA	733	CG	GLN	96	14.362	40.551	-9.970	1.00 57.47	Al

MOTA	734	CD	GLN	96	13.996	39.744	-11.255	1.00 60.94	-A1
ATOM	735	OEL	GLN	96	12.988		-11.934	1.00 63.96	
ATOM	736	NE2		96	14.802		-11.597	1.00 60.89	A1
ATOM	737	С	GLN	96	16.335	38.405	-7.322	1.00 48.68	A1
ATOM	738	0	GLN	96	17.465	38.849	-7.592		A1
ATOM	739	N	ALA	97	16.150	37.427	-6.443	1.00 48.55 1.00 46.14	A1
ATOM	740	CA	ALA	97	17.279	36.849	-5.738		A1
ATOM	741		ALA	97	17.720	37.792	-4.625	1.00 43.43	A1
ATOM	742	C	ALA	97	16.834	35.512		1.00 42.90	A1
ATOM	743	ō	ALA	97	15.649	35.275	-5.174	1.00 41.43	Al
ATOM	744	N	ALA	98	17.781		-5.016	1.00 42.26	A1
ATOM	745	CA	ALA	98	17.491	34.633	-4.888	1.00 38.63	A1
ATOM	746	CB	ALA	98	18.340	33.320	-4.333	1.00 35.46	A1
ATOM	747	c	ALA	98		32.283	-5.027	1.00 34.45	Al
ATOM	748	Õ	ALA	.98	17.829	33.355	-2.843	1.00 33.41	A1
ATOM	749	N	VAL		18.818	33.969	-2.447	1.00 32.79	Al
ATOM	750	CA	VAL	99	17.005	32.711	-2.034	1.00 31.25	A1
ATOM				99	17.213	32.600	-0.581	1.00 30.34	A1
ATOM	751	CB	VAL	99	15.994	32.977	0.278	1.00 32.21	A1
	752		VAL	99	16.452	33.374	1.688	1.00 30.41	A1
ATOM	753		VAL	99	15.153	33.979	-0.393	1.00 32.69	A1
ATOM	754	C	VAL	99	17.339	31.136	-0.206	1.00 29.01	A1
MOTA	755	0	VAL	99	16.558	30.319	-0.680	1.00 27.15	Al
ATOM	756	N	HIS	100	18.299	30.810	0.651	1.00 28.69	A1
ATOM	757	CA	HIS	100	18.435	29.432	1.141	1.00 28.94	Al
ATOM	758	CB	HIS	100	19.735	28.813	0.699	1.00 31.55	A1.
MOTA	759	CG	HIS	100	19.904	28.757	-0.780	1.00 35.62	A1
MOTA	760		HIS	100	20.725	29.452	-1.610	1.00 36.22	A1
ATOM	761	ND1		100	19.196	27.881	-1.578	1.00 37.27	A1
ATOM	762	CE1	HIS	100	19.575	28.041	-2.836	1.00 36.95	A1
MOTA	763	NE2	HIS	100	20.497	28.987	-2.881	1.00 37.02	Al
MOTA	764	C	HIS	100	18.416	29.518	2.680	1.00 28.21	Al
MOTA	765	0	HIS	100	18.921	30.477	3.274	1.00 28.01	A1
ATOM	766	N	VAL	101	17.819	28.534	3.320	1.00 26.49	Al
ATOM	767	CA	VAL	101	17.731	28.521	4.755	1.00 25.36	Al
ATOM	768	CB	VAL	101	16.321	28.961	5.171	1.00 25.72	Al
MOTA	769	CG1	VAL	101	15.312	27.810	4.830	1.00 25.91	Al
MOTA	770	CG2	VAL	101	16.249	29.263	6.693	1.00 24.55	Al
ATOM	771	C	VAL	101	17.974	27.082	5.284	1.00 24.98	Al
MOTA	772	Ō	VAL	101	17.731	26.114	4.577	1.00 23.99	Al
ATOM	773	N	SER	102	18.460	26.968	6.525	1.00 25.05	
ATOM	774	CA	SER	102	18.654	25.705	7.218	1.00 25.32	Al
ATOM	775	CB	SER	102	20.016		6.943		A1
ATOM	776	OG	SER	102	20.018	23.796		1.00 25.69	. A1
ATOM	777	C	SER	102			7.570	1.00 26.81	Al
ATOM	778	0	SER		18.474	25.991	8.715	1.00 26.24	Al
ATOM	779			102	18.990	26.948	9.279	1.00 26.44	A1
		N	ILE	103	17.727	25.118	9.347	1.00 27.73	Al
ATOM	780	CA	ILE	103	17.348	25.250	10.733	1.00 28.05	Al
MOTA	781	CB	ILE	103	15.823	25.429	10.771	1.00 28.38	A1
ATOM	782	CG2		103	15.257	25.564	12.273	1.00 26.15	A1
MOTA	783	CG1		103	15.482	26.676	9.967	1.00 27.93	A1
ATOM	784	CDI		103	13.976	26.855	9.714	1.00 27.56	Al
ATOM	785	C	ILE	103	17.743	23.982	11.474	1.00 29.39	Al
MOTA	786	0	ILE	103	17.594	22.882	10.953	1.00 28.59	Al
ATOM	787	N	THR	104	18.279	24.133	12.679	1.00 31.06	Al
ATOM	788	CA	THR	104	18.659	22.963	13.470	1.00 32.26	Al
MOTA	789	CB	THR	104	20.156	22.640	13.288	1.00 33.13	· A1
MOTA	790	OG1	THR	104	20.417	21.334	13.796	1.00 36.05	A1
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ATOM	791		2 THR	104	21.040	23.653	14.041	1.00 34.05	
ATOM	. 792	C	THR	104	18.337	23.236	14.945	1.00 32.20	A1
MOTA	793	0	THR	104	18.251	24.383	15.375	1.00 32.07	A1
MOTA	794	N	HIS	105	18.207	22.175	15.718	1.00 32.17	A1
ATOM	795	CA	HIS	105	17.868	22.318	17.112	1.00 33.14	Al
ATOM	796	CB	HIS	105	16.419	21.857	17.378	1.00 33.14	Al
MOTA	797	CG	HIS	105	15.361	22.740	16.785	1.00 33.42	A1
MOTA	798	CD2	HIS	105	14.776	22.728	15.563	1.00 33.41	A1
ATOM	799	NDI	HIS	105	14.806	23.799	17.468	1.00 33.17	Al
MOTA	800	CE1	. HIS	105	13.930	24.410	16.684		A1
MOTA	801	NE2	HIS	105	13.898	23.784	15.524	1.00 33.55 1.00 31.70	Al
ATOM	802	C	HIS	105	18.732	21.440	17.955	1.00 31.70	Al
MOTA	803	0	HIS	105	19.219	20.423	17.495	1.00 33.28	A1
ATOM	804	N	THR	106	18.913	21.866	19.188	1.00 33.82	A1
ATOM	805	CA	THR	106	19.571	21.079	20.231	1.00 35.50	A1
ATOM	806	CB	THR	106	20.888	21.669	20.699	1.00 34.97	A1
ATOM	807	OG1	THR	106	20.649	23.006	21.184	1.00 34.97	A1
ATOM	808	CG2	THR	106	21.896	21.675	19.560	1.00 34.11	A1
ATOM	809	С	THR	106	18.534	21.271	21.372	1.00 34.11	A1
MOTA	810	0	THR	106	17.583	22.050	21.232	1.00 36.77	Al
ATOM	811	N	LYS	107	18.705	20.579	22.488	1.00 38.77	Al
MOTA	812	CA	LYS	107	17.766	20.700	23.606	1.00 38.69	A1
ATOM	813	CB	LYS	107	18.217	19.791	24.744	1.00 39.45	A1
MOTA	814	CG	LYS	107	18.548	18.426	24.200	1.00 41.81	A1
ATOM	815	CD	LYS	107	17.376	17.906	23.316		A1
ATOM	816	CE	LYS	107 .	17.726	16.573	22.670	1.00 48.48	Al
ATOM	817	NZ	LYS	107	19.034	16.767	21.979	1.00 49.87	A1
ATOM	818	C	LYS	107	17.629	22.131	24.102	1.00 51.62	Al
ATOM	819	0	LYS	107	16.549	22.546	24.102	1.00 38.70	A1
ATOM	820	N	GLU	108	18.717	22.890	24.129	1.00 38.83	A1
MOTA	821	CA	GLU	108	18.634	24.266	24.600	1.00 38.25	A1
MOTA	822	CB	GLU	108	19.784	24.546	25.551	1.00 38.46	A1
ATOM	823	CG	GLU	108.	19.689	23.806	26.905	1.00 41.56	A1
ATOM	824	CD	GLU	108	21.046	23.723	27.532	1.00 46.25 1.00 49.16	A1
ATOM	825	OE1		108	21.297	22.804	28.359	1.00 49.16	A1
ATOM	826	OE2		108	21.875	24.583	27.165	1.00 51.02	A1
ATOM	827	С	GLU	108	18.599	25.342	23.511		Al
ATOM	828	0	GLU	108	18.241	26.490	23.775	1.00 37.27	A1
MOTA	829	N	TYR	109	18.882	24.972	22.272	1.00 37.57	A1
ATOM	830	CA	TYR	109	18.903	25.983	21.205	1.00 35.87	Al
ATOM	831	CB	TYR	109	20.347	26.276	20.786	1.00 34.61 1.00 35.12	A1
ATOM	832	CG	TYR	109	21.247	26.738	21.886	1.00 35.12	A1
ATOM	833		TYR	109	21.082	27.983	22.469	1.00 37.02	. A1
MOTA	834		TYR	109	21.878	28.388	23.506	1.00 37.55	A1
ATOM	835		TYR	109	22.238	25.905	22.370	1.00 38.09	A1
ATOM	836		TYR	109	23.033	26.284	23.413	1.00 40.11	Al
ATOM	837	CZ	TYR	109	22.848	27.524	23.983		A1
ATOM	838	OH	TYR	109	23.585	27.851	25.080	1.00 40.67	A1
ATOM	839	C	TYR	109	18.178	25.739	19.900	1.00 42.84 1.00 32.13	A1
ATOM	840	0	TYR	109	17.993	24.593	19.476	1.00 32.13	A1
ATOM	841	N	ALA	110	17.817	26.857	19.272		A1
ATOM	842	CA	ALA	110	17.290			1.00 30.38	Al
ATOM	843	СВ	ALA	110	15.995	26.885	17.897	1.00 28.86	Al
ATOM	844	c	ALA	110	18.370	27.591	17.836	1.00 28.37	Al
ATOM	845	ō	ALA	110	18.794	27.712	17.127	1.00 29.23	A1
ATOM	846	И	ALA	111		28.810	17.575	1.00 29.93	A1
ATOM	847	CA	ALA	111	18.882	27.187	16.022	1.00 27.52	Al
		~~~			19.837	27.950	15.237	1.00 25.45	A1

ATOM	848				21.158	27.349	15.323	1.00 24.00	• •
ATOM	849		ALA	111	19.368	27.907			A1
ATOM	850		ALA	111	18.808	26.889			A1
ATOM	851		ALA	112	19.592	29.004		5.00	A1
ATOM	852			112	19.264	29.091			Al
ATOM	853			112	17.946	29.749			Al
ATOM	854	_	ALA	112	20.339	29.907			A1
ATOM	855		ALA	112	20.956		11.398		Al
MOTA	856		GLN	113	20.556	29.564	9.586		Al
ATOM	857			113	21.470	30.320	8.770		A1
ATOM	858			113	22.760	29.543	8.517		Al
ATOM	859			113	22.662	28.453	7.592		Al
ATOM	860			113	23.958	27.673	7.572		A1
ATOM	861		1 GLN	113	24.926	28.054	8.255		A1
ATOM	862	NE:		113	23.992	26.573	6.829		A1
ATOM	863	C	GLN	113	20.694	30.579	7.471		A1
ATOM	864	0	GLN	113	19.859	29.755	7.045		A1
ATOM	865	N	VAL	114	20.925	31.745	6.882	1.00 24.78	Al
ATOM	866	CA	VAL	114	20.225	32.103	5.673	1.00 25.47	A1
ATOM	867	CB	VAL	114	19.161	33.207	5.911	1.00 24.56	A1
ATOM	868		L VAL	114	18.648	33.687	4.571	1.00 24.37	A1
ATOM	869		2 VAL	114	18.009	32.716	6.747	1.00 22.99	A1
ATOM	870	C	VAL	114	21.192	32.670	4.638	1.00 26.69	A1
ATOM	871	0	VAL	114	22.091	33.446	4.989	1.00 26.92	A1
ATOM	872	N	VAL	115	21.018	32.286	3.371	1.00 27.22	A1
ATOM	873	CA	VAL	115	21.834	32.879	2.303	1.00 28.03	Al
ATOM	874	CB	VAL	115	22.795	31.856	1.613	1.00 27.69	A1
MOTA	875		. VAL	115	23.605	32.534	0.410	1.00 25.99	A1 A1
ATOM	876	CG2		115	23.795	31.316	2.637	1.00 27.55	
ATOM	877	C	VAL	115	20.865	33.507	1.254	1.00 29.18	Al Al
ATOM	878	0	VAL	115	19.864	32.900	0.824	1.00 27.88	A1
ATOM	879	N	ILE	116	21.131	34.767	0.932	1.00 30.60	A1
ATOM ATOM	880	CA	ILE	116	20.367	35.486	-0.076	1.00 32.32	Al
	881	CB	ILE	116	19.787	36.777	0.501	1.00 31.54	Al
ATOM	882	CG2		116	19.258	37.657	-0.621	1.00 30.92	Al
ATOM	883		ILE	116	18.651	36.419	1.510	1.00 30.97	Al
ATOM	884		ILE	116	17.956	37.568	2.088	1.00 29.63	A1
ATOM	885	С	ILE	116	21.423	35.756	-1.170	1.00 36.07	Al
ATOM	886	0	ILE	116	22.425	36.468	-0.958	1.00 35.04	Al
ATOM	887	N	GLU	117	21.201	35.130	-2.316	1.00 39.41	A1
ATOM ATOM	888	CA	GLU	117	22.104	35.182	-3.479	1.00 44.07	Al
	889	CB	GLU	117	22.420	33.781	-4.007	1.00 44.80	Al
ATOM	890	CG	GLU	117	23.090	32.856	-3.087	1.00 47.54	Al
ATOM ATOM	891	CD	GLU	117	23.439	31.583	-3.800	1.00 49.39	A1
	892		GLU	117	22.506	30.829	-4.213	1.00 49.67	Al
ATOM	893		GLU	117	24.661	31.354	-3.953	1.00 50.54	A1
ATOM ATOM	894	C	GLU	117	21.527	35.833	-4.701	1.00 45.98	Al
	895	0	GLU	117	20.347	36.079	-4.779	1.00 46.28	Al
ATOM	896	N	ALA	118	22.396	36.016	-5.696	1.00 49.81	Al
ATOM	897	CA	ALA	118	22.012	36.546	-7.004	1.00 53.49	Al
ATOM	898	СВ	ALA	118	23.271	36.985	-7.787	1.00 53.10	Al
ATOM	899	C	ALA	118	21.344	35.312	-7.683	1.00 56.40	Al
ATOM	900	0	ALA	118	21.759	34.156	-7.466	1.00 56.33	Al
ATOM	901	N	LEU	119	20.314	35.556	-8.485	1.00 58.93	Al
ATOM	902	CA	LEU	119	19.614	34.475	-9.176	1.00 62.13	Al
MOTA	903	CB	LEU	119	18.385	35.046	-9.902	1.00 62.98	Al
MOTA	904	CG	LEU	119	17.128	35.145	-9.029	1.00 64.50	A1
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ATOM	905		LLEU	119	15.976	35.783	-9.797	1.00 64.92	A1
ATOM	906		LEU	119	16.746	33.722	-8.584	1.00 65.21	
ATOM	907	C	LEU	119	20.484		-10.164	1.00 63.60	A1
ATOM	908	OTI	LEU	119	21.489		-10.695		A1
ATOM	909	OT	LEU	119	20.141		-10.403		A1
ATOM	910	CB	ALA	2	31.204	30.268		1.00 64.56	A1
ATOM	911	С	ALA	2	33.074		-1.737	1.00 26.39	B1
MOTA	912	0	ALA	2	33.105	29.689	-3.244	1.00 25.91	Bl
ATOM	913	N	ALA	2	30.781	28.570	-3.739	1.00 26.11	Bl
ATOM	914	CA	ALA	2		29.877	-4.115	1.00 25.73	Bl
ATOM	915	N	TYR	3	31.761	30.434	-3.139	1.00 25.92	B1
ATOM	916	CA	TYR	3	34.150	30.270	-2.707	1.00 25.88	<b>B1</b>
ATOM	917	CB	TYR		35.481	29.614	-2.742	1.00 26.08	B1 ·
ATOM	918	CG		3	36.575	30.662	-2.886	1.00 26.57	B1
ATOM	919		TYR	3	36.421	31.481	-4.102	1.00 27.82	B1
ATOM			TYR	3	36.818	32.814	-4.122	1.00 29.29	B1
ATOM	920	CE1		3	36.734	33.556	-5.296	1.00 28.29	B1
	921	CD2		3	35.931	30.921	-5.281	1.00 29.34	B1
ATOM	922	CE2		3	35.840	31.655	-6.439	1.00 28.63	B1
ATOM	923	CZ	TYR	3	36.243	32.960	-6.437	1.00 28.80	B1
ATOM	924	OH	TYR	3	36.164	33.677	-7.609	1.00 30.80	B1
ATOM	925	C	TYR	3	35.772	28.792	-1.465	1.00 25.12	B1
ATOM	926	0	TYR	3	36.490	27.795	-1.518	1.00 23.25	B1
MOTA	927	N	GLY	4	35.235	29.257	-0.326	1.00 25.05	B1
ATOM	928	CA	GLY	4	35.397	28.565	0.958	1.00 23.80	
ATOM	929	C	GLY	4	34.387	29.073	1.990	1.00 24.49	B1 B1
ATOM	930	0	<b>GLY</b>	4	33.838	30.213	1.843	1.00 23.38	B1
ATOM	931	N	ILE	5	34.096	28.253	3.014	1.00 24.35	
ATOM	932	CA	ILE	5	33.215	28.684	4.077	1.00 24.74	B1
ATOM	933	CB	ILE	5	31.806	28.117	3.996	1.00 25.07	B1
ATOM	934	CG2	ILE	5	31.156	28.471	2.641	1.00 24.89	B1
ATOM	935	CG1	ILE	5	31.819	26.585	4.228	1.00 24.89	B1
ATOM	936	CD1	ILE	5	30.415	25.916	4.024	1.00 25.53	B1
ATOM	937	C	ILE	5	33.812	28.256	5.382	1.00 25.53	B1
ATOM	938	0	ILE	5	34.669	27.397	5.431	1.00 25.84	B1
ATOM	939	N	GLY	6	33.356	28.860	6.457	1.00 25.30	B1
MOTA	940	CA	GLY	6	33.864	28.495	7.752		B1
ATOM	941	C	GLY	6	32.887	28.860	8.862	1.00 25.02	B1
MOTA	942	0	GLY	6	32.180	29.886		1.00 25.03	B1
MOTA	943	N	LEU	7	32.882	28.022	8.809	1.00 24.21	B1
ATOM	944	CA	LEU	7	32.023		9.892	1.00 25.45	B1
ATOM	945	CB	LEU	7	30.893	28.217	11.036	1.00 26.13	B1
ATOM	946	CG		7		27.176	11.031	1.00 27.37	Bl
ATOM	947		LEU	7	29.911	27.230	12.202	1.00 27.44	. <b>Bl</b>
ATOM	948		LEU		29.025	28.487	12.083	1.00 28.47	Bl
ATOM	949	C	LEU	7	29.047	26.014	12.156	1.00 27.61	B1
ATOM	950	0		7	32.836	28.022	12.306	1.00 26.61	B1
ATOM	951	И	LEU	7	33.773	27.217	12.350	1.00 26.23	B1
ATOM	952		ASP	8	32.474	28.777	13.338	1.00 27.29	Bl
ATOM		CA	ASP	8	33.126	28.645	14.649	1.00 28.31	<b>B1</b>
ATOM	953 954	CB	ASP	8	34.444	29.445	14.775	1.00 29.82	B1
		CG	ASP	8	35.210	29.094	16.096	1.00 32.76	B1
ATOM	955	OD1		8	35.069	29.848	17.084	1.00 32.47	B1
ATOM	956	OD2		8	35.929	28.040	16.138	1.00 33.99	B1
ATOM	957	C	ASP	8	32.194	29.076	15.750	1.00 26.75	<b>B1</b>
ATOM	958	0	ASP	8	31.471	30.067	15.628	1.00 25.85	<b>B1</b>
MOTA	959	N	ILE	9	32.193	28.280	16.805	1.00 26.88	B1
ATOM	960	CA	ILE	9	31.379	28.564	17.999	1.00 27.43	B1
MOTA	961	CB	ILE	9	30.312	27.446	18.244	1.00 27.59	Bl

ATOM	962	cca	ILE	•	20 550				
ATOM				9	29.559	27.658	19.599	1.00 27.04	Bl
	963		ILE	9	29.318	27.430	17.044	1.00 28.13	B1
ATOM	964		ILE	9	28.148	26.387	17.150	1.00 27.19	Bl
MOTA	965	С	ILE	9	32.382	28.611	19.145	1.00 28.24	Bl
MOTA	966	0	ILE	9	33.151	27.690	19.321	1.00 28.60	Bl
ATOM	967	N	THR	10	32.353	29.685	19.926	1.00 29.28	B1
ATOM	968	CA	THR	10	33.249	29.864	21.057	1.00 30.48	B1
MOTA	969	CB	THR	10	34.188	31.052	20.742	1.00 31.33	B1
MOTA	970	OG1	THR	10	35.169	30.594	19.789	1.00 34.42	B1
ATOM	971	CG2	THR	10	34.917	31.538	21.956	1.00 32.00	
ATOM	972	C	THR	10	32.526	30.036			B1
ATOM	973	ō	THR	10	31.531		22.419	1.00 29.95	B1
ATOM	974	N	GLU	11		30.720	22.529	1.00 28.39	B1
ATOM	975	CA	GLU		33.048	29.399	23.464	1.00 31.32	Bl
				11	32.403	29.472	24.801	1.00 31.87	B1
ATOM	976	CB	GLU	11	32.835	28.289	25.676	1.00 33.64	B1
ATOM	977	CG	GLU	11	31.716	27.784	26.547	1.00 40.24	B1
ATOM	978	CD	GLU	11	32.181	27.028	27.821	1.00 43.39	B1
ATOM	979		GLU	11	33.344	26.499	27.873	1.00 44.86	B1
ATOM	980	OE2	GLU	11	31.343	26.941	28.766	1.00 45.49	B1
MOTA	981	C	GLU	11	32.804	30.770	25.481	1.00 30.40	B1
MOTA	982	0	GLU	11	33.992	31.004	25.678	1.00 29.17	B1
MOTA	983	N	LEU	12	31.823	31.610	25.801	1.00 29.04	B1
ATOM	984	CA	LEU	12	32.089	32.876	26.454	1.00 31.07	Bl
ATOM	985	CB	LEU	12	30.801	33.681	26.662	1.00 32.99	B1
ATOM	986	CG	LEU	12	30.053	34.021	25.359	1.00 35.90	B1
ATOM	987		LEU	12	28.665	34.596	25.624	1.00 35.82	
ATOM	988		LEU	12	30.901	35.004	24.552	1.00 35.82	B1
ATOM	989	C	LEU	12	32.815			- · · - <del>-</del>	B1
ATOM	990	0	LEU			32.740	27.816	1.00 31.80	B1
ATOM				12	33.708	33.553	28.106	1.00 31.13	Bl
	991	N	ALA	13	32.448	31.741	28.634	1.00 31.23	B1
MOTA	992	CA	ALA	13	33.123	31.588	29.927	1.00 32.54	B1
ATOM	993	CB	ALA	13	32.413	30.507	30.881	1.00 32.09	B1
ATOM	994	C	ALA	13	34.588	31.260	29.733	1.00 31.41	Bl
ATOM	995	0	ALA	. 13	35.431	31.793	30.433	1.00 30.77	B1
MOTA	996	N	ARG	14	34.891	30.414	28.754	1.00 31.73	B1
ATOM	997	CA	ARG	14	36.286	30.039	28.459	1.00 30.99	B1
MOTA	998	CB	ARG	14	36.259	29.020	27.327	1.00 30.57	Bl
ATOM	999	CG	ARG	14	37.526	28.328	27.173	1.00 31.14	B1
MOTA	1000	CD	ARG	14	37.522	27.371	26.023	1.00 32.79	Bl
MOTA	1001	NE	ARG	14	38.887	26.847	25.848	1.00 32.33	Bl
ATOM	1002	CZ	ARG	14	39.262	25.977	24.925	1.00 31.66	B1
ATOM	1003		ARG	14		25.511			_
ATOM	1004		ARG	14	38.383 40.513	25.543	24.042	1.00 31.62	. B1
ATOM	1005	C	ARG				24.926	1.00 31.83	B1
ATOM				14	37.125.		28.076	1.00 30.35	B1
	1006	0	ARG	14	38.204	31.580	28.588	1.00 29.54	B1
MOTA	1007	N	ILE	15	36.585	32.141	27.185	1.00 30.11	B1
ATOM	1008	CA	ILE	15	37.218	33.400	26.814	1.00 30.69	Bl
MOTA	1009	CB	ILE	15	36.361	34.204	25.754	1.00 30.02	B1
ATOM	1010		ILE	15	36.816	35.678	25.717	1.00 28.67	B1
ATOM	1011		ILE	15	36.417	33.502	24.393	1.00 28.37	B1
ATOM	1012	CD1	ILE	15	37.778	33.454	23.791	1.00 27.34	B1
ATOM	1013	C	ILE	15	37.362	34.280	28.074	1.00 30.92	Bl
ATOM	1014	0	ILE	15	38.439	34.823	28.358	1.00 31.82	B1
MOTA	1015	N	ALA	16	36.283	34.443	28.805	1.00 30.39	B1
ATOM	1016	CA	ALA	16	36.326	35.247	30.020	1.00 31.94	B1
ATOM	1017	СВ	ALA	16	34.941	35.199	30.765	1.00 31.34	B1
ATOM	1018	C	ALA	16				1.00 23.82	B1
ALUM	TATO	_	WIIN	. 10	37.475	34.791	30.969	1.00 32.80	PI

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ATOM	1019	0	ALA	16	38.254	35.621	31.429	1.00 34.32	Bl
ATOM	1020	N	SER	17	37.568	33.501	31.267	1.00 32.89	Bl
ATOM	1021	CA	SER	17	38.629	32.978	32.125	1.00 34.00	B1
ATOM	1022	CB	SER	17	38.517	31.476	32.260	1.00 32.84	Bl
MOTA	1023	OG	SER	17	37.194	31.136	32.461	1.00 35.05	B1
ATOM	1024	С	SER	17	40.018	33.242	31.561	1.00 34.86	Bl
ATOM	1025	0	SER	17	40.946	33.597	32.273	1.00 33.03	B1
ATOM	1026	N	MET	18	40.160	32.993	30.270	1.00 37.22	B1
ATOM	1027	CA	MET	18	41.450	33.205	29.637	1.00 39.40	B1
ATOM	1028	CB	MET	18	41.446	32.790	28.186	1.00 41.45	B1
ATOM	102,9	CG	MET	18	41.697	31.321	27.987	1.00 45.54	B1
MOTA	1030	SD	MET	18	41.922	31.024	26.211	1.00 50.43	B1
ATOM	1031	CE	MET	18	40.247	30.845	25.782	1.00 48.09	B1
ATOM	1032	С	MET	18	41.878	34.643	29.726	1.00 39.53	Bl
ATOM	1033	0	MET	18	43.020	34.910	30.119	1.00 40.11	B1
ATOM	1034	N	ALA	19	41.003	35.574	29.376	1.00 39.08	B1
ATOM	1035	CA	ALA	19	41.412	36.973	29.473	1.00 39.54	B1
ATOM	1036	CB	ALA	19	40.327	37.933	28.907	1.00 38.99	Bl
ATOM	1037	C	ALA	19	41.715	37.317	30.925	1.00 39.55	B1
ATOM	1038	0	ALA	19	42.608	38.115	31.168	1.00 40.32	B1
MOTA	1039	N	GLY	20	41.005	36.718	31.888	1.00 39.22	B1
ATOM	1040	CA	GLY	20	41.269	37.037	33.277	1.00 39.22	
ATOM	1041	C	GLY	20	42.655	36.569	33.713	1.00 39.09	B1
ATOM	1042	ō	GLY	20	43.421	37.278	34.382	1.00 39.40	B1
ATOM	1043	N	ARG	21	42.957	35.353	33.288		B1
ATOM	1044	CA	ARG	21	44.192	34.626		1.00 39.88	B1
ATOM	1045	CB	ARG	21	43.920	33.149	33.543	1.00 40.39	B1
ATOM	1046	CG	ARG	21	44.701		33.162	1.00 39.16	B1
ATOM	1047	CD	ARG	21	44.013	32.071	33.882	1.00 37.29	B1
ATOM	1048	NE	ARG			30.718	33.776	1.00 35.14	B1
ATOM	1049	CZ		21	43.669	30.325	32.393	1.00 33.14	B1
ATOM			ARG	21	42.451	29.918	32.010	1.00 32.97	B1
	1050		ARG	21	41.444	29.861	32.898	1.00 32.98	B1
ATOM	1051	NH2		21	42.234	29.515	30.767	1.00 30.26	Bl
MOTA	1052	C	ARG	21	45.383	35.225	32.728	1.00 41.48	B1
MOTA	1053	0	ARG	21	46.556	35.161	33.147	1.00 41.49	B1
ATOM	1054	N	GLN	22	45.086	35.851	31.590	1.00 42.70	B1
ATOM	1055	CA	GLN	22	46.149	36.426	30.758	1.00 43.56	Bl
MOTA	1056	CB	GLN	2,2	46.536	35.439	29.664	1.00 45.80	B1
ATOM	1057	CG	GLN	22	47.813	35.827	28.972	1.00 49.05	<b>B1</b>
MOTA	1058	CD	GLN	22	48.970	35.490	29.843	1.00 50.23	B1
MOTA	1059		GLN	22	49.851	36.326	30.101	1.00 50.93	B1
MOTA	1060	NE2	GLN	22	48.977	34.246	30.334	1.00 51.27	. B1
ATOM	1061	C	GLN	22	45.786	37.747	30.114	1.00 43.68	B1
ATOM	1062	0	GLN	22	45.133	37.782	29.071	1.00 43.58	<b>B1</b>
ATOM	1063	N	LYS	23	46.234	38.841	30.721	1.00 44.50	Bl
ATOM	1064	CA	LYS	23	45.932	40.197	30.213	1.00 45.41	B1
ATOM	1065	CB	LYS	23	46.577	41.263	31.174	1.00 46.07	B1
ATOM	1066	C	LYS	23	46.286	40.529	28.721	1.00 45.13	B1
ATOM	1067	0	LYS	23	45.670	41.419	28.111	1.00 45.95	B1
ATOM	1068	N	ARG	24	47.252	39.828	28.137	1.00 44.79	B1
ATOM	1069	CA	ARG	24	47.647	40.066	26.734	1.00 44.30	B1
MOTA	1070	CB	ARG	24	49.161	39.813	26.558	1.00 45.66	B1
ATOM	1071	CG	ARG	24	50.091	40.916	27.138	1 00 40 65	D1
ATOM	1072	CD	ARG	24	51.545	40.424	27.439	1.00 48.65	B1
ATOM	1073	NE	ARG	24	52.170	39.768	26.281	1.00 53.16	B1
ATOM	1074	CZ	ARG	24	52.170		26.181	1.00 52.98	B1
ATOM	1075		ARG	24	52.409	38.460	27.176	1.00 52.77	B1
27 Old	10/3	MUT	AAG	4.4	34.UY8	37.631	21.110	1.00 32.77	DT

ATOM	1076	NH2	2 ARG	24	52.911	37.976	25.050	1.00 53.75	
MOTA	1077	C	ARG	24	46.862	39.224	25.682	1.00 43.41	B1
ATOM	1078	0	ARG	24	47.117	39.342	24.476	1.00 41.77	B1
ATOM	1079	N	PHE	25	45.904	38.396	26.122	1.00 41.77	B1
ATOM	1080	CA	PHE	25	45.153	37.588	25.159	1.00 41.38	B1
ATOM	1081	CB	PHE	25	44.145	36.674	25.866	1.00 40.68	B1
MOTA	1082	CG	PHE	25	43.188	35.966	24.926	1.00 41.90	B1
MOTA	1083	CD1	PHE	25	43.657	35.222	23.852	1.00 40.31	B1
MOTA	1084	CD2	PHE	25	41.796	35.990	25.168	1.00 42.65	B1
MOTA	1085	CE1	PHE	25	42.793	34.515	23.047	1.00 40.58	B1
ATOM	1086	CE2	PHE	25	40.904	35.265	24.342	1.00 42.06	B1 B1
ATOM	1087	CZ	PHE	25	41.403	34.532	23.290	1.00 41.02	B1
ATOM	1088	C	PHE	25	44.432	38.438	24.128	1.00 39.93	B1
ATOM	1089	0	PHE	25	44.489	38.151	22.944	1.00 40.29	B1
ATOM	1090	N	ALA	26	43.778	39.500	24.569	1.00 39.38	B1
ATOM	1091	CA	ALA	26	43.052	40.358	23.659	1.00 39.11	B1
ATOM	1092	CB	ALA	26	42.214	41.368	24.439	1.00 39.81	B1
ATOM	1093	C	ALA	26	43.943	41.073	22.667	1.00 39.48	B1
ATOM	1094	0	ALA	26	43.532	41.289	21.525	1.00 39.36	B1
MOTA	1095	И	GLU	27	45.151	41.446	23.090	1.00 39.52	B1
ATOM	1096	CA	GLU	27	46.105	42.137	22.214	1.00 39.44	B1
ATOM	1097	CB	GLU	27	47.359	42.618	22.972	1.00 42.26	B1
MOTA	1098	CG	GLU	27	47.153	43.846	23.880	1.00 46.62	B1
ATOM	1099	CD	GLU	27	48.453	44.311	24.546	1.00 49.04	B1
MOTA	1100	OE1		27	48.791	43.779	25.635	1.00 49.32	B1
MOTA	1101	OE2	GLU	27	49.145	45.198	23.959	1.00 51.13	B1
ATOM	1102	C	GLU	27	46.572	41.231	21.114	1.00 37.83	B1
ATOM	1103	0	GLU	27	46.871	41.700	20.010	1.00 36.89	B1
ATOM	1104	N	ARG	28	46.660	39.938	21.414	1.00 35.85	B1
ATOM	1105	CA	ARG	28	47.092	38.981	20.403	1.00 35.38	B1
ATOM	1106	CB	ARG	28	47.359	37.617	21.011	1.00 35.61	B1
ATOM	1107	CG	ARG	28	48.442	36.892	20.272	1.00 37.83	B1
ATOM	1108	CD	ARG	28	48.482	35.423	20.638	1.00 40.08	B1
ATOM	1109	NE	ARG	28	49.440	34.762	19.763	1.00 41.90	B1
ATOM	1110	CZ	ARG	28	50.761	34.831	19.905	1.00 43.04	B1
ATOM	1111		ARG	28	51.318	35.525	20.919	1.00 42.06	B1
ATOM	1112	NH2		28	51.532	34.225	18.999	1.00 43.51	B1
ATOM	1113	C	ARG	28	46.041	38.782	19.314	1.00 34.81	B1
ATOM	1114	0	ARG	28	46.384	38.692	18.146	1.00 34.82	B1
ATOM	1115	N	ILE	29	44.770	38.705	19.727	1.00 34.29	<b>B1</b>
ATOM	1116	CA	ILE	29	43.608	38.476	18.854	1.00 33.36	B1
ATOM	1117	CB	ILE	29	42.388	38.009	19.716	1.00 32.64	, B1
ATOM	1118		ILE	29	41.199	37.626	18.834	1.00 33.38	Bl
ATOM	1119		ILE	29	42.790	36.826	20.581	1.00 32.81	· <b>B1</b>
ATOM	1120		ILE	29	43.503	35.659	19.828	1.00 33.12	<b>B1</b>
ATOM	1121	C	ILE	29	43.135	39.669	18.008	1.00 33.56	B1
ATOM	1122	0	ILE	29	42.800	39.519	16.818	1.00 33.84	B1
MOTA MOTA	1123	N	LEU	30	43.132	40.849	18.624	1.00 33.60	B1
ATOM	1124 1125	CA	LEU	30	42.591	42.069	18.017	1.00 34.10	B1
ATOM		CB	LEU	30	41.805	42.837	19.103	1.00 31.55	Bl
ATOM	1126	CG	LEU	30	40.805	41.980	19.917	1.00 30.29	B1
ATOM	1127		LEU	30	40.166	42.792	21.065	1.00 27.41	B1
ATOM	1128		LEU	30	39.717	41.460	18.934	1.00 28.50	B1
ATOM	1129	C	LEU	30	43.577	43.006	17.365	1.00 35.65	B1
	1130	0	LEU	30	44.731	43.105	17.773	1.00 37.79	B1
ATOM	1131	N	THR	31	43.140	43.704	16.340	1.00 36.42	B1
MOTA	1132	CA	THR	31	44.028	44.678	15.724	1.00 37.57	B1

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MOTA	1133	CB	THR	31	43.492	45.135	14.355	1.00 36.44	Bl
MOTA	1134	OG1	THR	31	42.186	45.710	14.536	1.00 36.56	Bl
MOTA	1135	CG2	THR	31	43.453	43.974	13.400	1.00 34.20	B1
MOTA	1136	C	THR	31	43.988	45.866	16.684	1.00 38.90	B1
ATOM	1137	0	THR	31	43.210	45.852	17.633	1.00 39.30	B1
MOTA	1138	N	ARG	32	44.783	46.912	16.445	1.00 40.92	B1
ATOM	1139	CA	ARG	32	44.761	48.057	17.370	1.00 42.16	B1
ATOM	1140	CB	ARG	32	45.849	49.077	17.034	1.00 43.63	B1
ATOM	1141	CG	ARG	32	46.249	49.896	18.307	1.00 45.88	B1
ATOM	1142	CD	ARG	32	47.069	51.105	17.912	1.00 47.41	B1
ATOM	1143	NE	ARG	32	47.817	50.791	16.700	1.00 47.41	
ATOM	1144	CZ	ARG	32	49.068				B1
ATOM	1145	NHI				50.357	16.675	1.00 49.50	B1
				32	49.733	50.188	17.810	1.00 49.69	B1
ATOM	1146	NH2	ARG	32	49.650	50.097	15.506	1.00 50.68	B1
ATOM	1147	C	ARG	32	43.402	48.763	17.353	1.00 42.65	B1
MOTA	1148	0	ARG	32	42.878	49.222	18.391	1.00 41.41	B1
ATOM	1149	N	SER	33	42.838	48.852	16.151	1.00 42.81	B1
MOTA	1150	CA	SER	33	41.550	49.464	16.015	1.00 43.76	B1
MOTA	1151	CB	SER	33	41.261	49.643	14.540	1.00 43.52	Bl
MOTA	1152	OG	SER	33	39.873	49.782	14.386	1.00 46.24	B1
ATOM	1153	С	SER	33	40.438	48.629	16.733	1.00 43.65	Bl
ATOM	1154	0	SER	33	39.574	49.182	17.415	1.00 44.48	B1
MOTA	1155	N	GLU	34	40.475	47.305	16.607	1.00 42.94	B1
ATOM	1156	CA	GLU	34	39.470	46.465	17.259	1.00 41.95	B1
ATOM	1157	CB	GLU	34	39.628	45.001	16.835	1.00 40.95	B1
ATOM	1158	CG	GLU	34	39.348	44.750	15.393	1.00 40.15	B1
ATOM	1159	CD	GLU	34	39.605	43.309	14.967	1.00 40.92	B1
ATOM	1160		GLU	34	40.597	42.695	15.431	1.00 40.90	B1
ATOM	1161	OE2	GLU	34	38.823	42.793	14.150	1.00 40.30	B1
ATOM									
	1162	C	GLU	34	39.687	46.593	18.753	1.00 41.77	B1
ATOM	1163	0	GLU	34	38.749	46.677	19.535	1.00 41.48	B1
MOTA	1164	N	LEU	35	40.956	46.623	19.125	1.00 42.42	B1
ATOM	1165	CA	LEU	35	41.393	46.745	20.504	1.00 43.24	B1
ATOM	1166	CB	LEU	35	42.904	46.713	20.538	1.00 43.31	B1
MOTA	1167	CG	LEU	35	43.622	45.884	21.580	1.00 43.75	B1
MOTA	1168		LEU	35	44.944	46.592	21.876	1.00 43.54	B1
ATOM	1169	CD2	LEU	35	42.805	45.720	22.833	1.00 43.33	B1
ATOM	1170	C	LEU	35	40.897	48.053	21.130	1.00 43.93	B1
MOTA	1171	0	LEU	35	40.421	48.060	22.280	1.00 43.01	<b>B1</b>
MOTA	1172	N	ASP	36	41.005	49.157	20.387	1.00 44.72	Bl
ATOM	1173	CA	ASP	36	40.522	50.411	20.939	1.00 46.43	B1
ATOM	1174	CB	ASP	36	40.834	51.625	20.047	1.00 46.32	, B1
MOTA	1175	CG	ASP	36	42.328	51.962	20.034	1.00 47.18	B1
ATOM	1176		ASP	36	43.011	51.676	21.042	1.00 47.46	B1
ATOM	1177		ASP	36	42.831	52.504	19.025	1.00 48.14	B1
ATOM	1178	C	ASP	36	39.040	50.269	21.131	1.00 47.36	B1
ATOM	1179	ō	ASP	36	38.519	50.720	22.138	1.00 48.13	B1
ATOM	1180	N	GLN	37	38.355	49.630	20.183	1.00 47.84	B1
ATOM	1181	CA	GLN	37	36.918	49.445	20.333	1.00 48.02	B1
									Bl
ATOM	1182	CB	GLN	37	36.354		19.100	1.00 48.62 1.00 50.60	B1
ATOM	1183	CG	GLN	37	36.416	49.589	17.849		
ATOM	1184	CD	GLN	37	36.137	48.763	16.597	1.00 51.12	B1
MOTA	1185		GLN	37	35.145	48.050	16.531	1.00 51.75	B1
ATOM	1186		GLN	37	37.023	48.853	15.606	1.00 52.14	B1
MOTA	1187	C	GLN	37	36.585	48.632	21.596	1.00 47.78	B1
ATOM	1188	0	GLN	37	35.640	48.946	22.299	1.0Q 48.37	B1
ATOM	1189	N	TYR	38	37.374	47.603	21.885	1.00 47.54	Bl

MOTA	1190	CA	TYR	38	37.161	46.732	23.046	1.00 47.74	Bl
MOTA	1191	CB.	TYR	38	38.165	45.551	22.941	1.00 46.60	Bl
ATOM	1192	CG	TYR	38	38.527	44.738	24.195	1.00 45.26	B1
ATOM	1193	CD1	TYR	38	39.691	45.014	24.905	1.00 44.68	Bl
ATOM	1194	CE1	TYR	38	40.084	44.229	25.991	1.00 44.13	B1
ATOM	1195	CD2	TYR	38	37.749	43.647	24.616	1.00 44.67	B1
ATOM	1196	CE2	TYR	38	38.123	42.863	25.703	1.00 43.73	B1
ATOM	1197	CZ	·TYR	38	39.298	43.160	26.382	1.00 44.36	B1
ATOM	1198	ОН	TYR	38	39.717	42.401	27.450	1.00 44.63	B1
ATOM	1199	C	TYR	38	37.287	47.487	24.373	1.00 48.96	B1
ATOM	1200	Ō	TYR	38	36.502	47.282	25.296	1.00 48.92	B1
ATOM	1201	N	TYR	39	38.268	48.377	24.449	1.00 50.35	B1
ATOM	1202	CA	TYR	39	38.539	49.177	25.645	1.00 52.19	B1
ATOM	1203	CB	TYR	39	39.867	49.908	25.465	1.00 52.76	B1
ATOM	1204	CG	TYR	39	41.044	49.009	25.696	1.00 53.28	B1
ATOM	1205	CD1		39	42.182	49.086	24.901	1.00 52.99	. B1
ATOM	1206	CEI		39	43.276	48.261	25.147	1.00 53.92	
ATOM	1207	CD2	TYR	39	41.023	48.084	26.742	1.00 53.92	B1
ATOM	1208	CE2	TYR	39	42.102	47.267	26.994	1.00 53.93	B1
ATOM	1208	CZ	TYR						B1
				39	43.222	47.355	26.204	1.00 54.32	Bl
ATOM	1210	OH	TYR	39	44.295	46.532	26.502	1.00 56.15	B1
ATOM	1211	C	TYR	39	37.467	50.187	26.053	1.00 52.72	B1
MOTA	1212	0	TYR	39	37.457	50.646	27.185	1.00 53.04	B1
MOTA	1213	N	ALA	40	36.570	50.517	25.129	1.00 53.49	B1
ATOM	1214	CA	ALA	40	35.507	51.473	25.379	1.00 53.72	B1
MOTA	1215	CB	ALA	40	35.097	52.154	24.063	1.00 52.69	B1
ATOM	1216	C	ALA	40	34.293	50.818	26.013	1.00 54.49	Bl
ATOM	1217	0	ALA	40	33.388	51.526	26.451	1.00 55.28	B1
MOTA	1218	N	LEU	41	34.268	49.483	26.073	1.00 54.98	B1
MOTA	1219	CA	LEU	41	33.107	48.746	26.622	1.00 55.00	B1
ATOM	1220	CB	LEU	41	32.825	47.481	25.789	1.00 53.64	Bl
MOTA	1221	CG	LEU	41	33.130	47.485	24.293	1.00 53.38	B1
ATOM	1222	CD1	LEU	41	33.180	46.027	23.794	1.00 52.52	B1
MOTA	1223	CD2	LEU	41	32.103	48.303	23.537	1.00 52.98	B1
MOTA	1224	C	LEU	41	33.224	48.311	28.082	1.00 55.16	B1
MOTA	1225	0	LEU	41	34.318	48.191	28.616	1.00 55.63	B1
ATOM	1226	N	SER	42	32.076	48.041	28.695	1.00 55.74	<b>B1</b>
MOTA	1227	CA	SER	42	31.983	47.578	30.089	1.00 56.51	<b>B1</b>
ATOM	1228	CB	SER	42	30.520	47.412	30.508	1.00 57.31	B1
ATOM	1229	OG	SER	42	29.991	46.181	29.993	1.00 57.63	B1
MOTA	1230	С	SER	42	32.622	46.208	30.229	1.00 56.49	B1
MOTA	1231	0	SER	42	32.986	45.575	29.236	1.00 56.57	<b>B1</b>
ATOM	1232	N	ALA	43	32.715	45.734	31.466	1.00 56.33	. B1
ATOM	1233	CA	ALA	43	33.291	44.420	31.713	1.00 56.63	B1
MOTA	1234	CB	ALA	43	33.418	44.151	33.257	1.00 56.01	Bl
ATOM	1235	C	ALA	43	32.439	43.328	31.024	1.00 56.37	B1
ATOM	1236	0	ALA	43	32.973	42.344	30.504	1.00 56.24	Bl
ATOM	1237	N	ALA	44	31.122	43.511	30.995	1.00 56.00	B1
ATOM	1238	CA	ALA	44	30.263	42.517	30.361	1.00 55.31	B1
ATOM	1239	СВ	ALA	44	28.793	42.867	30.547	1.00 55.66	B1
ATOM	1240	C	ALA	44	30.583	42.505	28.887	1.00 55.23	B1
ATOM	1241	o	ALA	44	31.264	41.581	28.378	1.00 55.55	Bl
ATOM	1241	Ŋ	ALA	45	30.083	43.546	28.222	1.00 52.94	Bl
									B1
ATOM	1243	CA	ALA	45	30.242	43.735	26.799	1.00 51.15 1.00 51.88	B1
ATOM	1244	CB	ALA	45	29.909	45.174	26.441		
MOTA	1245	C	ALA	45	31.628	43.379	26.283	1.00 49.53	B1
ATOM	1246	0	ALA	45	31.789	43.067	25.112	1.00 49.20	B1

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MOTA	1247	N	LYS	46	32.630	43.412	27.144	1.00 47.53	D.
ATOM	1248	CA	LYS	46	33.972	43.088	26.686	1.00 45.73	B1
ATOM	1249	CB	LYS	46	35.019	43.433	27.731	1.00 46.26	B1 B1
ATOM	1250	CG	LYS	46	35.557	44.825	27.647	1.00 48.50	B1
ATOM	1251	CD	LYS	46	36.731	44.962	28.607	1.00 49.81	B1
ATOM	1252	CE	LYS	46	37.403	46.296	28.457	1.00 52.00	B1
ATOM	1253	NZ	LYS	46	38.669	46.353	29.255	1.00 53.15	B1
ATOM	1254	C	LYS	46	34.206	41.644	26.283	1.00 43.73	B1
ATOM	1255	0	LYS	46	34.819	41.413	25.245	1.00 43.15	B1
ATOM	1256	N	ASN	47	33.769	40.688	27.107	1.00 41.38	· B1
MOTA	1257	CA	ASN	47	34.007	39.285	26.798	1.00 39.96	B1
ATOM	1258	CB	ASN	47	33.735	38.375	28.015	1.00 41.11	B1
ATOM	1259	CG	ASN	47	34.884	38.447	29.069	1.00 45.19	B1
MOTA	1260		. ASN	47	34.648	38.357	30.307	1.00 46.49	B1
ATOM	1261		ASN	47	36.136	38.607	28.584	1.00 44.51	Bl
ATOM	1262	C	asn	47	33.248	38.821	25.561	1.00 37.98	B1
ATOM	1263	0	ASN	47	33.771	38.012	24.780	1.00 36.13	B1
ATOM	1264	N	GLU	48	32.048	39.353	25.351	1.00 36.77	B1
ATOM	1265	CA	GLU	48	31.310	38.951	24.177	1.00 37.17	B1
ATOM	1266	CB	GLU	48	29.812	39.230	24.325	1.00 40.44	B1
ATOM	1267	CG	GLU	48	29.446	40.643	24.622	1.00 44.46	B1
ATOM	1268	CD	GLU	48	28.807	40.796	26.024	1.00 47.35	B1
MOTA	1269		GLU	48	29.591	40.785	27.020	1.00 48.12	B1
ATOM	1270	OE2		48	27.546	40.917	26.113	1.00 46.80	B1
ATOM	1271	C	GLU	48	31.884	39.621	22.921	1.00 35.12	B1
MOTA	1272	0	GLU	48	31.886	39.015	21.866	1.00 34.22	B1
ATOM	1273	N	PHE	49	32.396	40.851	23.042	1.00 33.28	B1
ATOM	1274	CA	PHE	49	33.003	41.492	21.891	1.00 31.67	B1
ATOM	1275	CB	PHE	49	33.407	42.921	22.201	1.00 31.19	B1
ATOM	1276	CG	PHE	49	34.157	43.604	21.082	1.00 28.77	B1
ATOM	1277		PHE	49	33.480	44.281	20.078	1.00 28.58	B1
ATOM	1278		PHE	49	35.531	43.583	21.040	1.00 29.27	B1
ATOM	1279		PHE	49	34.173	44.935	19.041	1.00 26.85	B1
ATOM	1280		PHE	49	36.236	44.245	20.004	1.00 28.19	B1
ATOM	1281	cz	PHE	49	35.545	44.913	19.017	1.00 26.97	B1
ATOM	1282	C	PHE	49	34.273	40.685	21.527	1.00 30.94	B1
ATOM	1283	0	PHE	49	34.521	40.391	20.353	1.00 29.62	Bl
ATOM ATOM	1284	N	LEU	5 Q	35.052	40.308	22.540	1.00 29.25	B1
ATOM	1285	CA	LEU	50	36.289	39.561	22.297	1.00 28.26	B1
ATOM	1286	CB	LEU	50	37.112	39.473	23.575	1.00 27.33	B1
ATOM	1287 1288	CG	LEU	50	38.423	38.692	23.483	1.00 28.33	Bl
ATOM	1289		LEU	50	39.317	39.237	22.326	1.00 26.30	B1
ATOM	1299		LEU	50	39.121	38.763	24.889	1.00 26.85	Bl
ATOM		C	LEU	50	35.956	38.170	21.746	1.00 27.90	B1
ATOM	1291 1292	0	LEU	50	36.501	37.755	20.732	1.00 27.63	Bl
ATOM		N	ALA	51	35.024	37.466	22.388	1.00 26.98	Bl
ATOM	1293 1294	CA	ALA	51	34.645	36.140	21.915	1.00 25.11	B1
ATOM	1295	CB	ALA	51	33.603	35.538	22.857	1.00 23.27	<b>B1</b>
ATOM	1296	C	ALA	51	34.098	36.194	20.453	1.00 24.63	B1
ATOM	1297	0	ALA	51	34.356	35.291	19.621	1.00 23.74	B1
ATOM	1298	N	GLY	52	33.343	37.244	20.147	1.00 24.05	B1
ATOM	1298	CA C	GLY	52 53	32.795	37.346	18.817	1.00 23.42	B1
ATOM	1300	0	GLY	52 53	33.874	37.557	17.775	1.00 24.52	B1
ATOM	1301	И	GLY ARG	52 53	33.850	36.942	16.711	1.00 25.82	Bl
ATOM	1301	CA		53 53	34.833	38.430	18.052	1.00 25.23	<b>B1</b>
ATOM	1302	CB	ARG	53 53	35.856	38.701	17.061	1.00 26.47	B1
	7202	CB	ARG	53	36.676	39.970	17.419	1.00 27.84	<b>B1</b>

MOTA	1304	CG	ARG	53	36.193	41.286	16.713	1.00 29.04	Bl
ATOM	1305	CD	ARG	53	34.753	41.748	17.040	1.00 32.70	B1
MOTA	1306	NE	ARG	53	34.323	42.926	16.256	1.00 33.45	B1
ATOM	1307	CZ	ARG	53	33.040	43.280	16.076	1.00 36.40	B1
ATOM	1308	NHl	ARG	53	32.065	42.555	16.620	1.00 37.75	B1
ATOM	1309	NH2	ARG	53	32.696	44.350	15.348	1.00 37.75	B1
ATOM	1310	C	ARG	53	36.727	37.503	16.895		
ATOM	1311	ō	ARG	53	37.185			1.00 25.54	B1
ATOM	1312	N	PHE	54		37.225	15.798	1.00 25.97	B1
ATOM	1312	CA	PHE	54	36.971	36.790	17.989	1.00 25.78	B1
ATOM					37.782	35.573	17.916	1.00 24.70	B1
	1314	CB	PHE	54	37.986	34.967	19.304	1.00 23.11	B1
ATOM	1315	CG	PHE	54	38.758	33.676	19.275	1.00 23.50	B1
ATOM	1316		PHE	54	38.105	32.443	19.349	1.00 23.28	B1
ATOM	1317		PHE	54	40.143	33.685	19.117	1.00 24.40	B1
ATOM	1318		PHE	54	38.818	31.251	19.274	1.00 23.13	B1
ATOM	1319		PHE	54	40.874	32.486	19.037	1.00 23.88	B1
MOTA	1320	CZ	PHE	54	40.189	31.262	19.120	1.00 23.28	B1
ATOM	1321	C	PHE	54	37.030	34.564	17.021	1.00 24.85	B1
ATOM	1322	0	PHE	54	37.614	33.926	16.151	1.00 25.96	B1
ATOM	1323	N	ALA	55	35.723	34.433	17.238	1.00 23.60	B1
ATOM	1324	CA	ALA	55	34.921	33.500	16.443	1.00 22.67	B1
ATOM	1325	CB	ALA	55	33.412	33.474	16.986	1.00 19.81	B1
ATOM	1326	c	ALA	55	34.957	33.917	14.955	1.00 21.88	
ATOM	1327	ō	ALA	55	35.168	33.087	14.064	1.00 21.88	B1
ATOM	1328	И	ALA	56	34.750	35.198			B1
ATOM	1329	CA	ALA	56	34.773		14.678	1.00 21.17	B1
ATOM			ALA			35.644	13.281	1.00 21.94	B1
	1330	CB		56	34.447	37.053	13.217	1.00 21.38	B1
ATOM	1331	C	ALA	56	36.141	35.385	12.634	1.00 23.12	B1
ATOM	1332	0	ALA	56	36.212	35.050	11.455	1.00 25.01	B1
MOTA	1333	И	LYS	57	37.225	35.473	13.411	1.00 22.35	B1
ATOM	1334	CA	LYS	57	38.527	35.253	12.814	1.00 23.06	B1
ATOM	1335	CB	LYS	57	39.679	35.933	13.598	1.00 21.11	Bl
ATOM	1336	CG	LYS	57	39.543	37.437	13.622	1.00 19.67	B1
ATOM	1337	CD	LYS	57	40.779	38.119	14.201	1.00 19.94	B1
MOTA	1338	CE	LYS	57	40.524	39.636	14.269	1.00 21.28	B1
ATOM	1339	NZ	LYS	57	41.711	40.419	14.731	1.00 21.24	B1
ATOM	1340	С	LYS	57	38.794	33.786	12.657	1.00 23.67	B1
ATOM	1341	0	LYS	57	39.442	33.390	11.703	1.00 24.22	B1
ATOM	1342	N	GLU	58	38.314	32.966	13.581	1.00 23.83	Bl
ATOM	1343	CA	GLU	58	38.519	31.539	13.370	1.00 24.27	B1
ATOM	1344	CB	GLU	58	38.056	30.755	14.590	1.00 26.87	B1
ATOM	1345	CG	GLU	58	39.034				
ATOM	1346	CD	GLU	58	40.209	30.808 29.836	15.772 15.554	1.00 32.81 1.00 36.83	B1
ATOM			GLU						B1
	1347			58	39.913	28.628	15.293	1.00 40.26	B1
ATOM	1348		GLU	58	41.398	30.262	15.628	1.00 36.84	B1
MOTA	1349	C	GLU	58	37.718	31.083	12.104	1.00 22.49	B1
MOTA	1350	0	GLU	58	38.230	30.372	11.253	1.00 21.87	B1
MOTA	1351	N	ALA	59	36.488	31.542	11.971	1.00 20.35	B1
ATOM	1352	CA	ALA	59	35.684	31.094	10.867	1.00 21.36	B1
MOTA	1353	CB	ALA	59	34.240	31.652	11.021	1.00 19.54	B1
MOTA	1354	С	ALA	59	36.326	31.557	9.513	1.00 22.84	Bl
ATOM	1355	0	ALA	59	36.373	30.805	8.536	1.00 22.04	B1
ATOM	1356	N	PHE	60	36.795	32.801	9.490	1.00 22.02	B1
ATOM	1357	CA	PHE	60	37.420	33.345	8.316	1.00 22.50	B1
ATOM	1358	CB	PHE	60	37.822	34.807	8.572	1.00 23.42	B1
ATOM	1359	CG	PHE	60	38.562	35.379	7.442	1.00 23.85	B1
ATOM	1360		PHE	60	37.867	35.934	6.361	1.00 23.20	B1
A1011	1300		FILE	<b>50</b>	31.001	33.334	0.301	1.00 23.20	51

MOTA	1361		PHE	60	39.942	35.274	7.402	1.00 23.36	B1
ATOM	1362		PHE	60	38.535	36.377	5.240	1.00 24.53	B1
MOTA	1363	CE2		60	40.662	35.710	6.283	1.00 26.01	B1
MOTA	1364	CZ	PHE	60	39.936	36.277	5.170	1.00 24.87	B1
MOTA	1365	C	PHE	60	38.659	32.529	7.946	1.00 22.51	B1
ATOM	1366	0	PHE	60	38.842	32106	6.776	1.00 22.37	B1
MOTA	1367	N	SER	61	39.521	32.301	8.931	1.00 22.91	B1
ATOM	1368	CA	SER	61	40.732	31.509	8.660	1.00 23.52	B1
MOTA	1369	CB	SER	61	41.560	31.290	9.953	1.00 23.83	B1
ATOM	1370	OG	SER	61	40.958	30.284	10.809	1.00 25.53	B1
ATOM	1371	C	SER	61	40.343	30.136	8.063	1.00 23.43	B1
ATOM	1372	0	SER	61	41.105	29.571	7.304	1.00 24.15	B1
ATOM	1373	N	LYS	62	39.167	29.599	8.405	1.00 22.88	B1
ATOM	1374	CA	LYS	62	38.758	28.286	7.858	1.00 24.47	B1
MOTA	1375	CB	LYS	62	37.679	27.642	8.757	1.00 25.68	B1
MOTA	1376	CG	LYS	62	38.126	27.199	10.182	1.00 29.50	Bl
ATOM	1377	CD	LYS	62	36.846	26.907	11.071	1.00 32.07	B1
ATOM	1378	CE	LYS	62	37.165	26.114	12.368	1.00 33.86	B1
ATOM	1379	NZ	LYS	62	36.250	26.459	13.585	1.00 36.00	Bl
ATOM	1380	C	LYS	62	38.225	28.428	6.398	1.00 24.82	Bl
ATOM	1381	0	LYS	62	38.453	27.602	5.552	1.00 23.97	Bl
ATOM	1382	N	ALA	63	37.481	29.490	6.151	1.00 25.40	Bl
MOTA	1383	CA	ALA	63	36.950	29.827	4.839	1.00 26.03	B1
ATOM	1384	CB	ALA	63	36.122	31.106	4.995	1.00 23.81	B1
ATOM	1385	C	ALA	63	38.193	30.109	3.936	1.00 26.63	B1
ATOM	1386	0	ALA	63	38.228	29.752	2.774	1.00 25.61	Bl
MOTA	1387	N	PHE	64	39.186	30.795	4.498	1.00 27.51	<b>B1</b>
ATOM	1388	CA	PHE	64	40.422	31.136	3.772	1.00 29.24	<b>B1</b>
MOTA MOTA	1389	CB	PHE	64	41.315	32.016	4.664	1.00 29.05	Bl
ATOM	1390 1391	CG	PHE	64	42.531	32.577	3.977	1.00 30.71	Bl
ATOM	1391		PHE	64	42.432	33.666	3.092	1.00 29.37	B1
ATOM	1393		PHE	64 64	43.808	32.082	4.293	1.00 30.61	B1
ATOM	1394		PHE	64	43.594	34.243	2.552	1.00 29.64	B1
MOTA	1395	CZ	PHE	64	44.978 44.879	32.657	3.761	1.00 30.30	B1
ATOM	1396	c	PHE	64	41.147	33.744 29.851	2.891	1.00 29.10	B1
ATOM	1397	ō	PHE	64	41.897	29.864	3.386 2.444	1.00 30.09 1.00 30.68	B1
ATOM	1398	N	GLY	65	40.926	28.756	4.139	1.00 30.68	B1
ATOM	1399	CA	GLY	65	41.527	27.472	3.815	1.00 30.38	B1
ATOM	1400	C	GLY	65	42.753	26.964	4.562	1.00 33.20	B1 B1
ATOM	1401	0	GLY	65	43.211	25.837	4.342	1.00 33.31	B1
ATOM	1402	N	THR	66	43.274	27.738	5.498	1.00 32.35	B1
ATOM	1403	CA	THR	66	44.491	27.293	6.148	1.00 32.11	Bl
ATOM	1404	CB	THR	66	45.613	28.232	5.794	1.00 30.57	B1
MOTA	1405	<b>OG1</b>		66	45.290	29.511	6.364	1.00 28.59	B1
MOTA	1406	CG2	THR	· 66	45.747	28.354	4.300	1.00 30.33	B1
ATOM	1407	C	THR	66	44.470	27.332	7.652	1.00 33.04	B1
MOTA	1408	0	THR	66	45.398	26.826	8.260	1.00 33.53	B1
ATOM	1409	N	GLY	67	43.459	27.992	8.232	1.00 33.38	B1
MOTA	1410	CA	GLY	67	43.391	28.178	9.668	1.00 33.05	B1
MOTA	1411	C	GLY	· 67	44.432	29.247	9.963	1.00 33.13	Bl
MOTA	1412	0	GLY	67	45.166	29.634	9.055	1.00 31.39	Bl
MOTA	1413	N	ILE	68	44.479	29.728	11.207	1.00 33.97	B1
MOTA	1414	CA	ILE	68	45.444	30.751	11.657	1.00 33.80	B1
ATOM	1415	CB	ILE	68	45.022	31.343	13.056	1.00 32.72	B1
ATOM	1416	CG2		68	46.167	32.173	13.668	1.00 30.94	B1
ATOM	1417	CG1	ILE	68	43.746	32.163	12.916	1.00 32.01	Bl

MOTA	1418	CD1	ILE	68	43.901	33.419	12.019	1.00 29.71	B1
ATOM	1419	C	ILE	68	46.855	30.146	11.788	1.00 35.01	B1
MOTA	1420	0	ILE	68	47.015	29.005	12.185	1.00 34.63	B1
MOTA	1421	N	GLY	69	47.874	30.926	11.429	1.00 36.79	B1
MOTA	1422	CA	GLY	69	49.249	30.469	11.521	1.00 38.01	B1
ATOM	1423	C	GLY	69	50.230	31.161	10.578	1.00 39.61	B1
MOTA	1424	0	GLY	69	50.264	32.393	10.460	1.00 38.05	B1
MOTA	1425	N	ALA	70	51.023	30.327	9.900	1.00 41.65	B1
MOTA	1426	CA	ALA	70	52.024	30.765	8.944	1.00 43.14	B1
MOTA	1427	CB	ALA	70	52.822	29.536	8.415	1.00 43.37	B1
ATOM	1428	С	ALA	70	51.432	31.568	7.775	1.00 43.45	B1
MOTA	1429	0	ALA	70	51.935	32.625	7.446	1.00 44.06	Bl
MOTA	1430	N	GLN	71	50.345	31.101	7.172	1.00 43.42	B1
ATOM	1431	CA	GLN	71	49.782	31.872	6.033	1.00 43.43	B1
ATOM	1432	CB	GLN	71	49.130	30.925	5.004	1.00 45.18	B1
ATOM	1433	CG	GLN	71	50.095	29.867	4.411	1.00 48.80	B1
ATOM	1434	CD	GLN	71	49.429	28.485	4.153	1.00 51.39	B1
ATOM	1435	OE1	GLN	71	49.030	28.175	3.023	1.00 54.02	B1
ATOM	1436	NE2	GLN	71	49.308	27.663	5.202	1.00 50.54	B1
ATOM	1437	C	GLN	71	48.776	32.960	6.449	1.00 40.86	B1
ATOM	1438	0	GLN	71	48.323	33.754	5.614	1.00 39.98	B1
ATOM	1439	N	LEU	72	48.480	33.045	7.744	1.00 37.98	B1
ATOM	1440	CA	LEU	72	47.478	34.009	8.190	1.00 36.26	B1
ATOM	1441	СВ	LEU	72	46.102	33.522	7.777	1.00 34.40	B1
MOTA	1442	CG	LEU	72	44.902	34.399	8.050	1.00 32.85	B1
ATOM	1443	CD1	LEU	72	44.843	35.468	6.992	1.00 32.54	B1
ATOM	1444		LEU	72	43.629	33.535	8.011	1.00 31.85	B1
ATOM	1445	C	LEU	72	47.472	34.216	9.682	1.00 36.26	B1
ATOM	1446	0	LEU	72	47.304	33.262	10.467	1.00 35.99	B1
ATOM	1447	N	SER	73	47.615	35.474	10.052	1.00 35.30	B1
ATOM	1448	CA	SER	73	47.639	35.883	11.439	1.00 35.78	B1
ATOM	1449	CB	SER	73	48.729	36.924	11.647	1.00 35.81	B1
MOTA	1450	OG	SER	73	48.610	37.488	12.952	1.00 38.65	B1
MOTA	1451	С	SER	73	46.321	36.512	11.889	1.00 35.17	B1
ATOM	1452	0	SER	73	45.537	36.964	11.061	1.00 35.80	B1
ATOM	1453	N	PHE	74	46.101	36.549	13.200	1.00 34.10	Bl
ATOM	1454	CA	PHE	74	44.908	37.177	13.750	1.00 33.89	B1
ATOM	1455	CB	PHE	74	44.890	37.046	15.278	1.00 32.52	B1
ATOM	1456	CG	PHE	74	44.502	35.675	15.764	1.00 32.11	B1
MOTA	1457		PHE	74	43.182	35.231	15.658	1.00 31.77	B1
ATOM	1458	CD2	PHE	74	45.460	34.806	16.306	1.00 31.78	Bl
ATOM	1459		PHE	74	42.819	33.934	16.090	1.00 32.33	B1
ATOM	1460		PHE	74	45.108	33.502	16.745	1.00 31.95	Bl
MOTA	1461	CZ	PHE	74	43.780	33.066	16.631	1.00 30.79	B1
ATOM	1462	C	PHE	74	44.986	38.685	13.364	1.00 34.20	B1
ATOM	1463	0	PHE	74	43.953	39.338	13.079	1.00 31.60	B1
ATOM	1464	N	GLN	75	46.228	39.201	13.334	1.00 34.11	B1
ATOM	1465	CA	GLN	75	46.485	40.607	13.032	1.00 34.43	B1
ATOM	1466	СВ	GLN	75	47.942	40.950	13.352	1.00 36.57	B1
ATOM	1467	CG	GLN	75	48.293	40.925	14.862	1.00 35.45	B1
ATOM	1468	CD	GLN	75	47.372	41.779	15.674	1.00 36.29	B1
ATOM	1469		GLN	75	46.929	41.779	16.775	1.00 36.74	B1
ATOM	1470		GLN	75	47.069	42.966	15.154	1.00 37.01	B1
ATOM	1471	C	GLN	75	46.165	41.006	11.608	1.00 37.01	B1
ATOM	1472	ō	GLN	75	45.993	42.171	11.339	1.00 34.13	B1
ATOM	1473	N	ASP	76	46.080		10.698	1.00 34.13	B1
ATOM	1474	CA	ASP	76		40.050			
-12-01-1	A7/7	<u></u>	AL P	79	45.739	40.354	9.301	1.00 33.82	B1

MOTA	1475	CB	ASP	76	46.322	39.270	8.395	1.00 35.57	B1
ATOM	1476	CG	ASP	76	47.852	39.128	8.534	1.00 37.11	B1
MOTA	1477		ASP	76	48.552	40.144	8.846	1.00 36.68	B1
ATOM	1478		ASP	76	48.328	37.987	8.309	1.00 37.48	B1
MOTA	1479	C	ASP	76	44.210	40.422	9.012	1.00 34.06	B1
MOTA	1480	0	ASP	76	43.787	40.732	7.888	1.00 32.89	Bl
ATOM	1481	N	ILE	77	43.398	40.089	10.018	1.00 33.00	<b>B1</b>
ATOM	1482	CA	ILE	77	41.955	40.077	9.870	1.00 33.14	B1
ATOM	1483	CB	ILE	77	41.341	38.684	10.249	1.00 31.81	Bl
MOTA	1484	CG2	ILE	77	39.856	38.611	9.840	1.00 30.14	Bl
ATOM	1485	CG1	ILE	77	42.099	37.549	9.512	1.00 31.15	B1
ATOM	1486	CD1	ILE	77	41.911	36.136	10.200	1.00 29.63	<b>B1</b>
ATOM ATOM	1487	C	ILE	77	41.355	41.143	10.764	1.00 34.04	B1
ATOM	1488 1489	<b>о</b>	ILE GL <b>U</b>	77 79	41.608	41.201	11.980	1.00 34.59	B1
ATOM	1499	CA	GLU	78 78	40.571 39.948	42.014	10.160	1.00 34.50	B1
ATOM	1491	CB	GLU	78 78	40.631	43.026 44.366	10.950	1.00 35.99	B1
ATOM	1492	CG	GLU	78 78	40.066	45.544	10.676 11.396	1.00 38.42	B1
ATOM	1493	CD	GLU	78 78	41.027	46.714	11.396	1.00 41.11 1.00 43.67	B1
ATOM	1494		GLU	78	41.755	46.939	12.283	1.00 43.67	B1 B1
ATOM	1495	OE2	GLU	78	41.081	47.377	10.223	1.00 44.87	B1
ATOM	1496	C	GLU	78	38.454	43.114	10.676	1.00 36.02	B1
ATOM	1497	0	GLU	78	37.994	43.186	9.522	1.00 36.02	B1
ATOM	1498	N	ILE	79	37.708	43.094	11.758	1.00 35.68	B1
MOTA	1499	CA	ILE	79	36.296	43.225	11.696	1.00 37.08	B1
ATOM	1500	CB	ILE	79	35.639	42.374	12.814	1.00 36.74	B1
ATOM	1501	CG2	ILE	79	34.146	42.704	12.920	1.00 36.28	B1
ATOM	1502	CG1	ILE	79	35.822	40.878	12.489	1.00 36.49	B1
ATOM	1503	CD1	ILE	79	37.253	40.448	12.415	1.00 37.09	B1
ATOM	1504	С	ILE	79	35.970	44.714	11.870	1.00 38.48	B1
ATOM	1505	0	ILE	79	36.470	45.350	12.795	1.00 37.73	Bl
MOTA	1506	N	ARG	80	35.185	45.273	10.953	1.00 40.54	Bl
MOTA	1507	CA	ARG	80	34.776	46.679	11.031	1.00 43.90	B1
ATOM	1508	CB	ARG	80	35.337	47.451	9.842	1.00 44.69	B1
MOTA	1509	CG	ARG	80	36.851	47.544	9.830	1.00 46.15	Bl
ATOM	1510	CD	ARG	80	37.368	48.230	8.579	1.00 47.22	B1
ATOM	1511	NE	ARG	80	38.813	48.036	8.469	1.00 48.93	B1
ATOM	1512	CZ	ARG	80	39.512	48.260	7.365	1.00 49.88	B1
ATOM	1513	NH1		80	38.887	48.692	6.270	1.00 49.30	Bl
MOTA	1514	NH2	ARG	80	40.828	48.046	7.351	1.00 49.32	Bl
ATOM	1515	C	ARG	80	33.242	46.839	11.048	1.00 46.39	B1
ATOM	1516	0	ARG	80	32.493	45.980	10.556	1.00 46.33	B1
ATOM	1517	N	ALA	81	32.770	47.949	11.607	1.00 49.26	B1
ATOM ATOM	1518	CA	ALA	81	31.331	48.203	11.671	1.00 52.06	B1
ATOM	1519 1520	CB C	ALA ALA	81	30.969	48.850	13.018	1.00 51.83	B1
ATOM	1521	0	ALA	81 81	31.018	49.136	10.509	1.00 53.95	B1
ATOM	1522	И	ASP	82	31.826	50.014	10.202	1.00 54.91 1.00 55.55	B1
ATOM	1523	CA	ASP	82	29.882 29.580	48.956 49.823	9.846 8.720	1.00 58.10	B1 B1
ATOM	1524	CB	ASP	82	28.899	49.023	7.606	1.00 57.68	B1
ATOM	1525	CG	ASP	82	27.483	48.625	7.966	1.00 57.85	Bl
ATOM	1526		ASP	82	26.738	48.149	7.077	1.00 57.83	B1
ATOM	1527		ASP	82	27.119	48.789	9.151	1.00 57.82	B1
ATOM	1528	C	ASP	82	28.691	51.021	9.099	1.00 59.84	B1
ATOM	1529	Ö	ASP	82	28.675	51.469	10.244	1.00 60.02	B1
ATOM	1530	N	GLN	83	27.964	51.538	8.107	1.00 61.97	B1
ATOM	1531	CA	GLN	83	27.035	52.666	8.293	1.00 63.65	B1
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ATOM	1532	CB	GLN	83	26.184	52.848	7.031	1.00 64.43	Bl
ATOM	1533	CG		83	27.006	52.812	5.757	1.00 66.77	B1
ATOM	1534	CD	GLN	83	26.149	52.707	4.501	1.00 68.23	B1
ATOM	1535	OE1	GLN	83	25.367	53.619	4.188	1.00 68.35	Bl
MOTA	1536	NE2	GLN	83	26.296	51.587	3.766	1.00 68.89	B1
ATOM	1537	С	GLN	83	26.101	52.378	9.479	1.00 63.85	B1
ATOM	1538	0	GLN	83	26.173	53.032	10.534	1.00 63.94	B1
ATOM	1539	N	ASN	84	25.233	51.387	9.301	1.00 63.70	B1
ATOM	1540	CA	ASN	84	24.304	51.037	10.353	1.00 63.32	B1
ATOM	1541	CB	ASN	84	23.000	50.557	9.737	1.00 64.23	B1
ATOM	1542	CG	ASN	84	21.798	51.287	10.326	1.00 65.77	B1
ATOM	1543	OD1	ASN	84	21.424	52.388	9.867	1.00 65.94	B1
ATOM	1544	ND2	ASN	84	21.204	50.699	11.376	1.00 66.01	B1
ATOM	1545	C	ASN	84	24.771	50.040	11.429	1.00 62.56	B1
MOTA	1546	0	ASN	84	23.942	49.406	12.103	1.00 62.52	
ATOM	1547	N	GLY	85	26.084	49.874	11.581	1.00 62.32	B1
ATOM	1548	CA	GLY	85	26.580	48.986	12.626	1.00 59.18	B1
ATOM	1549	C	GLY	85	26.957	47.538	12.336	1.00 57.65	B1
ATOM	1550	0	GLY	85	27.729	46.943	13.108		B1
ATOM	1551	N	ALA	86	26.420	46.952	11.269	1.00 57.89	B1
ATOM	1552	CA	ALA	86	26.739	45.563		1.00 55.17	B1
ATOM	1553	CB	ALA	86	25.931	45.151	10.911	1.00 53.38	B1
ATOM	1554	C	ALA	86	28.278	45.347	9.650	1.00 52.68	B1
ATOM	1555	o	ALA	86	29.000		10.687	1.00 51.50	B1
ATOM	1556	N	PRO	87	28.784	46.268	10.262	1.00 51.32	B1
ATOM	1557	CD	PRO	87	27.948	44.130	10.998	1.00 49.44	B1
ATOM	1558	CA	PRO	87		43.003	11.480	1.00 48.99	<b>B1</b>
ATOM	1559	CB	PRO	87	30.201	43.717	10.868	1.00 46.89	B1
ATOM	1560	CG	PRO	87	30.310	42.543	11.836	1.00 47.60	B1
ATOM	1561	C	PRO	8 <i>7</i> 87	28.943	41.819	11.567	1.00 48.65	B1
ATOM	1562	0	PRO	8 <i>7</i> 87	30.560	43.267	9.464	1.00 44.00	B1.
ATOM	1563	N			29.740	42.683	8.758	1.00 43.26	B1
ATOM	1564		TYR	88	31.773	43.575	9.043	1.00 41.45	Bl
ATOM	1565	CA CB	TYR	88	32.244	43.126	7.740	1.00 39.15	B1
ATOM	1566		TYR	88	31.843	44.102	6.590	1.00 39.61	<b>B1</b>
ATOM	1567	CG CD1	TYR	88	32.482	45.487	6.604	1.00 41.06	Bl
ATOM			TYR TYR	88	33.675	45.743	5.894	1.00 41.16	B1
ATOM	1568			88	34.313	47.007	5.953	1.00 41.19	<b>B1</b>
	1569	CD2	TYR	88	31.934	46.533	7.368	1.00 41.56	B1
ATOM	1570	CE2	TYR	88	32.567	47.807	7.440	1.00 41.61	Bl
ATOM	1571	CZ	TYR	88	33.756	48.024	6.727	1.00 42.13	Bl
ATOM	1572	OH	TYR	88	34.396	49.247	6.800	1.00 43.16	B1
ATOM	1573	C	TYR	88	33.744	42.976	7.937	1.00 36.73	B1
ATOM	1574	0	TYR	88	34.324	43.493	8.883	1.00 34.70	B1
ATOM	1575	И	ILE	89	34.360	42.263	7.029	1.00 35.89	· <b>B1</b>
ATOM	1576	CA	ILE	89	35.757	41.973	7.131	1.00 35.67	Bl
MOTA	1577	CB	ILE	89	35.961	40.450	7.207	1.00 35.14	B1
ATOM	1578		ILE	89	37.473	40.080	6.887	1.00 33.43	Bl
ATOM	1579	CG1		89	35.493	39.959	8.569	1.00 33.89	B1
ATOM	1580	CD1		89	35.498	38.495	8.693	1.00 34.14	Bl
ATOM	1581	C	ILE	89	36.706	42.462	6.060	1.00 36.44	<b>B1</b>
ATOM	1582	0	ILE	89	36.451	42.305	4.864	1.00 36.42	B1
ATOM	1583	N	ILE	90	37.837	42.974	6.527	1.00 36.77	Bl
ATOM	1584	CA	ILE	90	38.917	43.418	5.652	1.00 37.18	Bl
MOTA	1585	CB	ILE	90	39.256	44.903	5.835	1.00 37.91	B1
ATOM	1586	CG2		90	40.363	45.286	4.829	1.00 39.62	Bl
ATOM	1587		ILE	90	38.033	45.775	5.513	1.00 38.16	Bl
ATOM	1588	CD1	ILE	90	37.522	45.595	4.070	1.00 35.21	B1

MOTA	1589	С	ILE	90	40.132	42.593	6.034	1.00 36	.19	B1
MOTA	1590	O .	ILE	90	40.564	42.623	7.166	1.00 36		B1
ATOM	1591	И	CYS	91	40.621	41.804	5.092	1.00 35		B1
ATOM	1592	CA	CYS	91	41.776	40.955	5.323	1.00 35		Bl
ATOM	1593	CB	CYS	91	41.455	39.490	5.037	1.00 35		B1
ATOM	1594	SG	CYS	91	42.926	38.466	5.170	1.00 33		B1
MOTA	1595	C	CYS	91	42.920	41.359	4.415	1.00 36	.16	B1
ATOM	1596	0	CYS	91	42.750	41.390	3.189	1.00 35		B1
MOTA	1597	N	THR	92	44.085	41.591	5.024	1.00 36		Bl
ATOM	1598	CA	THR	92	45.287	42.019	4.300	1.00 38		B1
MOTA	159 <del>9</del>	CB	THR	92	46.507	42.197	5.248	1.00 38	.75	B1
MOTA	1600	OG1		92	46.761	40.963	5.936	1.00 37	7.76	Bl
MOTA	1601	CG2	THR	92	46.263	43.298	6.272	1.00 39	0.01	B1
MOTA	1602	C	THR	92	45.716	41.027	3.231	1.00 39	.26	B1
ATOM	1603	0	THR	92	46.323	41.413	2.264	1.00 39	.63	B1
ATOM	1604	N	LYS	93	45.407	39.745	3.421	1.00 39	.79	B1
MOTA	1605	CA	LYS	93	45.810	38.723	2.484	1.00 39	.52	<b>B1</b>
ATOM	1606	CB	LYS	93	46.010	37.393	3.198	1.00 40	1.17	B1
ATOM	1607	CG	LYS	93	47.006	37.426	4.332	1.00 40	.94	Bl
MOTA	1608	CD	LYS	93	48.307	38.081	3.926	1.00 41	78	B1
ATOM	1609	CE	LYS	93	49.388	37.905	4.982	1.00 42	2.27	Bl
ATOM	1610	NZ	LYS	93	50.633	38.699	4.664	1.00 44	.42	B1
MOTA	1611	C	LYS	93	44.867	38.495	1.341	1.00 39	7.75	B1
ATOM	1612	0	LYS	93	45.155	37.671	0.493	1.00 39	.68	B1
ATOM	1613	И	LEU	94	43.748	39.203	1.304	1.00 40	0.01	B1
ATOM	1614	CA	LEU	94	42.774	39.014	0.217	1.00 41	18	B1
MOTA	1615	CB	LEU	94	41.353	38.899	0.778	1.00 40	.88	Bl
ATOM	1616	CG	LEU	94	40.856	37.581	1.350	1.00 40	77	Bl
MOTA	1617		LEU	94	39.413	37.749	1.726	1.00 39	9.19	B1
MOTA	1618	CD2	LEU	94	41.054	36.453	0.312	1.00 39	7.78	B1
MOTA	1619	C	LEU	94	42.718	40.145	-0.806	1.00 41	L.93	B1
MOTA	1620	0	LEU	94	42.764	41.313	-0.438	1.00 42	2.74	B1
ATOM	1621	N	SER	95	42.526	39.815	-2.072	1.00 42	2.58	B1
ATOM	1622	CA	SER	95	42.421	40.876	-3.069	1.00 42	2.96	B1
MOTA	1623	CB	SER	95	43.778	41.109	-3.754	1.00 43	3.94	B1
ATOM	1624	OG	SER	95	44.020	40.115	-4.746	1.00 43	3.87	Bl
MOTA	1625	C	SER	95	41.379	40.672	-4.150	1.00 42	2.89	B1
MOTA	1626	0	SER	95	40.905	41.627	-4.730	1.00 44	1.24	B1
ATOM	1627	N	GLN	96	41.009	39.450	-4.471	1.00 43	3.07	B1
ATOM	1628	CA	GLN	96	40.033	39.325	-5.561	1.00 42	2.39	Bl
ATOM	1629	CB	GLN	96	40.750	38.755	-6.780	1.00 44		B1
MOTA	1630	CG	GLN	96	41.943	39.613	-7.243	1.00 47	7.44	Bl
ATOM	1631	CD	GLN	96	41.569	40.542	-8.395	1.00 49	0.06	B1
MOTA	1632		GLN	96	42.357	41.411	-8.776	1.00 49	.80 €	Bl
ATOM	1633	NE2	GLN	96	40.363	40.344	-8.977	1.00 49		Bl
ATOM	1634	C	GLN	96	38.854	38.456	-5.173	1.00 40	.56	B1
ATOM	1635	0	GLN	96	38.375	37.620	-5.947	1.00 40	).17	B1
MOTA	1636	N	ALA	97	38.367	38.690	-3.962	1.00 38	3.47	B1
ATOM	1637	CA	ALA	97	37.270	37.906	-3.429	1.00 36	5.12	B1
ATOM	1638	CB	ALA	97	37.845	36.736	-2.643	1.00 34	1.36	B1
MOTA	1639	C	ALA ··	97	36.388	38.735	-2.535	1.00 35	5.07	B1
ATOM	1640	0	ALA	97	36.870	39.615	-1.833	1.00 36	5.55	B1
MOTA	1641	N	ALA	98	35.092	38.472	-2.550	1.00 33	3.28	Bl
ATOM	1642	CA	ALA	98	34.201	39.183	~1.629	1.00 31	L.74	B1
MOTA	1643	CB	ALA	98	32.803	39.328	-2.228	1.00 30	.40	B1
ATOM	1644	C	ALA	98	34.130	38.316	-0.337	1.00 30	0.10	B1
ATOM	1645	0	ALA	98	34.182	37.094	-0.387	1.00 28	3.07	B1

MOTA	1646		VAL	99	33.978	38.966	0.799	1.00 30.22	<b>D</b> 1
MOTA	1647	CA	VAL	99	33.900	38.260	2.058	1.00 30.56	B1 B1
MOTA	1648	CB	VAL	99	35.113	38.595	2.968	1.00 30.62	B1
MOTA	1649		L VAL	99	35.074	37.747	4.264	1.00 29.52	B1
ATOM	1650	CG:	2 VAL	99	36.397	38.287	2.246	1.00 31.07	
ATOM	1651	C	VAL	99	32.621	38.611	2.814	1.00 30.85	B1
ATOM	1652	0	VAL	99	32.270	39.801	2.952	1.00 30.29	B1
MOTA	1653	N	HIS	100	31.932	37.576	3.300	1.00 30.10	B1
ATOM	1654	CA	HIS	100	30.719	37.792	4.111	1.00 30.30	B1
MOTA	1655	CB	HIS	100	29.465	37.206	3.469	1.00 30.39	B1
ATOM	1656	CG	HIS	100	29.121	37.824	2.161	1.00 34.23	B1 B1
ATOM	1657	CD	HIS	100	29.355	37.408	0.894	1.00 34.42	
ATOM	1658	ND	L HIS	100	28.564	39.083	2.062	1.00 34.61	B1
ATOM	1659	CE	LHIS	100	28.476	39.420	0.787	1.00 36.03	B1
ATOM	1660	NE	HIS	100	28.950	38.425	0.060	1.00 36.35	B1 B1
ATOM	1661	C	HIS	100	30.869	37.141	5.477	1.00 29.01	
MOTA	1662	0	HIS	100	31.357	35.977	5.612	1.00 28.01	B1
ATOM	1663	N	VAL	101	30.390	37.880	6.466	1.00 27.15	B1
MOTA	1664	CA	VAL	101	30.432	37.420	7.803	1.00 27.13	B1
ATOM	1665	CB	VAL	101	31.533	38.118	8.577	1.00 27.02	B1
ATOM	1666	CG1	VAL	101	31.179	39.597	8.765	1.00 24.61	B1
ATOM	1667	CG2	VAL	101	31.724	37.451	9.899	1.00 24.51	B1
MOTA	1668	C	VAL	101	29.146	37.662	8.539	1.00 28.14	B1
ATOM	1669	0	VAL	101	28.482	38.698	8.356	1.00 29.45	B1
ATOM	1670	N	SER	102	28.766	36.707	9.379	1.00 28.04	B1
ATOM	1671	CA	SER	102	27.616	36.957	10.208	1.00 28.42	B1
ATOM	1672	CB	SER	102	26.399	36.166	9.718	1.00 27.56	B1
MOTA	1673	OG	SER	102	25.295	36.440	10.575	1.00 29.02	B1
MOTA	1674	C	SER	102	28.060	36.563	11.635	1.00 28.63	B1
ATOM	1675	0	SER	102	28.699	35.524	11.824	1.00 28.25	B1
MOTA	1676	N	ILE	103	27.749	37.392	12.630	1.00 28.25	B1
ATOM	1677	CA	ILE	103	28.156	37.096	13.994	1.00 28.89	B1
MOTA	1678	CB	ILE	103	29.152	38.131	14.536	1.00 29.90	B1
ATOM	1679	CG2	ILE	103	29.511	37.772	16.050	1.00 30.84	B1
ATOM	1680	CG1	ILE	103	30.430	38.125	13.682	1.00 30.85	B1
MOTA	1681	CD1	ILE	103	31.412	39.173	14.073	1.00 30.83	B1
ATOM	1682	C	ILE	103	26.972	37.048	14.933	1.00 30.17	B1
MOTA	1683	0	ILE	103	26.145	37.944	14.946	1.00 30.48	B1
ATOM	1684	N	THR	104	26.866	36.004	15.731	1.00 30.48	B1
ATOM	1685	CA	THR	104	25.712	35.941	16.635	1.00 30.81	B1 B1
ATOM	1686	CB	THR	104	24.677	34.929	16.131	1.00 31.43	B1
ATOM	1687	0G1	THR	104	23.467	35.108	16.863	1.00 32.62	B1
MOTA	1688	CG2	THR	104	25.190	33.488	16.319	1.00 30.80	B1
MOTA	1689	С	THR	104	26.143	35.562	18.052	1.00 31.67	B1
ATOM	1690	0	THR	104	27.209	34.983	18.234	1.00 30.85	B1
MOTA	1691	N	HIS	105	25.285	35.878	19.028	1.00 32.96	B1
ATOM	1692	CA	HIS	105	25.557	35.637	20.466	1.00 34.13	B1
ATOM	1693	CB	HIS	105	25.928	36.950	21.166	1.00 34.78	B1
ATOM	1694	CG	HIS	105	27.158	37.587	20.644	1.00 37.03	B1
ATOM	1695	CD2	HIS	105	27.335	38.645	19.814	1.00 38.51	B1
ATOM	1696		HIS	105	28.423	37.129	20.961	1.00 38.91	B1
ATOM	1697		HIS	105	29.328	37.869	20.346	1.00 38.37	B1
ATOM	1698		HIS	105	28.696	38.799	19.644	1.00 40.30	B1
ATOM	1699	C	HIS	105	24.379	35.094	21.267	1.00 40.30	B1
ATOM	1700	0	HIS	105	23.261	35.499	21.25	1.00 34.37	B1
ATOM	1701	N	THR	106	24.659	34.189	22.209	1.00 34.82	B1
ATOM	1702	CA	THR	106	23.665	33.685	23.164	1.00 35.49	B1
		-		<del>-</del> .		JJ. 30J	43.104	A. CC 33.43	DI

MOTA	1703	CB	THR	106	23.475	32.156	23.182	1.00 35.09	Bl
ATOM	1704	0G1	.THR	106	24.707	31.544	23.546	1.00 34.36	B1
MOTA	1705	CG2	THR	106	22.953	31.632	21.823	1.00 35.91	B1
ATOM	1706	C	THR	106	24.309	34.003	24.517	1.00 36.01	B1
ATOM	1707	0	THR	106	25.409	34.565	24.562	1.00 35.69	B1
ATOM	1708	N	ALA	107	23.663	33.602	25.613	1.00 36.11	B1
ATOM	1709	CA	ALA	107	24.222	33.885	26.943	1.00 36.17	B1
ATOM	1710	CB	ALA	107	23.182	33.498	28.093	1.00 36.40	B1
ATOM	1711	C	ALA	107	25.560	33.172	27.162	1.00 35.49	B1
ATOM	1712	0	ALA	107	26.469	33.727	27.769	1.00 35.34	B1
MOTA	1713	N	GLU	108	25.706	31.971	26.625	1.00 35.10	B1
ATOM	1714	CA	GLU	108	26.945	31.234	26.825	1.00 35.82	B1
ATOM	1715	CB	GLU	108	26.639	29.789	27.251	1.00 38.90	B1
ATOM	1716	CG	GLU	108	25.842	29.696	28.522	1.00 44.61	B1
MOTA	1717	CD	GLU	108	25.599	28.262	28.937	1.00 48.58	B1
ATOM	1718	OE1		108	24.655	28.041	29.730	1.00 50.53	B1
ATOM	1719	OE2	GLU	108	26.362	27.357	28.489	1.00 51.47	B1
ATOM	1720	С	GLU	108	27.922	31.137	25.666	1.00 34.54	B1
ATOM	1721	0	GLU	108	29.067	30.773	25.877	1.00 33.82	B1
ATOM	1722	N	TYR	109	27.475	31.424	24.445	1.00 33.83	B1
ATOM	1723	CA	TYR	109	28.353	31.235	23.264	1.00 31.80	B1
ATOM	1724	CB	TYR	109	27.875	30.013	22.503	1.00 31.67	B1
MOTA	1725	CG	TYR	109	28.046	28.688	23.249	1.00 32.77	B1
ATOM	1726	CD1	TYR	109	29.273	28.051	23.250	1.00 33.33	B1
ATOM	1727	CE1	TYR	109	29.487	26.878	23.917	1.00 35.40	B1
ATOM	1728	CD2	TYR	109	27.005	28.103	23.962	1.00 33.45	B1
ATOM	1729	CE2	TYR	109	27.208	26.886	24.682	1.00 34.90	B1
ATOM	1730	CZ	TYR	109	28.463	26.290	24.648	1.00 35.91	B1
ATOM	1731	OH	TYR	109	28.808	25.152	25.354	1.00 33.31	B1
ATOM	1732	C	TYR	109	28.417	32.380	22.310	1.00 37.81	B1
ATOM	1733	o	TYR	109	27.554	33.228	22.303	1.00 30.99	B1
ATOM	1734	N	ALA	110	29.461	32.420	21.505	1.00 29.56	B1
ATOM	1735	CA	ALA	110	29.581	33.426	20.459	1.00 28.07	B1
ATOM	1736	CB	ALA	110	30.834	34.276	20.657	1.00 28.86	B1
ATOM	1737	C	ALA	110	29.738	32.524	19.210	1.00 27.13	B1
ATOM	1738	ō	ALA	110	30.402	31.493	19.291	1.00 26.29	B1
ATOM	1739	N	ALA	111	29.118	32.894	18.081	1.00 25.23	B1
ATOM	1740	CA	ALA	111	29.227	32.100	16.882	1.00 23.39	B1
ATOM	1741	CB	ALA	111	28.013	31.175	16.746	1.00 22.39	B1
ATOM	1742	C	ALA	111	29.356	33.008	15.679	1.00 22.39	B1
ATOM	1743	o	ALA	111	28.867	34.126	15.682	1.00 22.70	B1
ATOM	1744	и	ALA	112	30.089	32.558	14.686	1.00 21.46	B1
ATOM	1745	CA	ALA	112	30.241	33.345	13.482	1.00 22.44	B1
ATOM	1746	СВ	ALA	112	31.486	34.252	13.589	1.00 21.22	Bl
ATOM	1747	C	ALA	112	30.398	32.430	12.266	1.00 23.59	B1
ATOM	1748	Ö	ALA	112	30.378	31.293	12.375	1.00 24.32	B1
ATOM	1749	N	GLN	113	29.993	32.935	11.115	1.00 23.66	B1
ATOM	1750	CA	GLN	113		32.218	9.878	1.00 25.14	B1
ATOM	1751	СВ	GLN	113	30.208		9.383	1.00 25.14	B1
			GLN		28.908	31.534			B1
ATOM	1752	CG		113	27.902	32.494	8.868	1.00 27.79 1.00 28.98	
ATOM	1753	CD	GLN	113	26.589	31.847	8.350		B1
ATOM	1754		GLN	113	25.654	32.552	8.027	1.00 30.45 1.00 30.54	B1
ATOM	1755		GLN	113	26.531	30.530	8.284		B1
ATOM	1756	C	GLN	113	30.776	33.195	8.822	1.00 24.53	B1
ATOM	1757	0	GLN	113	30.519	34.401	8.807	1.00 23.39	B1
ATOM	1758	И	VAL	114	31.571	32.644	7.944	1.00 24.96	B1
ATOM	1759	CA	VAL	114	32.177	33.414	6.905	1.00 24.84	B1

ATOM	1760	СВ	VAL	114	33.652	33.625	7.242	3 00 04 00	
ATOM	1761		1 VAL	114	34.423		6.006	21.20	B1
MOTA	1762	CG	2 VAL	114	33.757		8.465		B1
ATOM	1763		VAL	114	32.030		5.545		B1
MOTA	1764	0	VAL	114	32.043		5.430	1.00 26.84	B1
MOTA	1765	N	VAL	115	31.806		4.513	1.00 28.29	B1
ATOM	1766	CA	VAL	115	31.771	32.953	3.166	1.00 27.25	B1
MOTA	1767	CB	VAL	115	30.349		2.574	1.00 27.22	Bl
ATOM	1768	CG	1 VAL	115	30.344	32.570	1.101	1.00 28.50	B1
ATOM	1769	CG	2 VAL	115	29.410	32.124	3.431	1.00 28.02	B1
ATOM	1770	C	VAL	115	32.738	33.848	2.383	1.00 28.89	<b>B1</b>
ATOM	1771	0	VAL	115	32.711	35.075	2.508	1.00 27.02	B1
MOTA	1772	N	ILE	116	33.677	33.218	1.686	1.00 26.76	B1
ATOM	1773	CA	ILE	116	34.609	33.904	0.814	1.00 27.52	B1
ATOM	1774	CB	ILE	116	36.075	33.488		1.00 26.35	B1
ATOM	1775	CG:	2 ILE	116	36.983	33.957	1.072	1.00 26.60	Bl
ATOM	1776		ILE	116	36.563	34.055	-0.072 2.443	1.00 21.90	B1
ATOM	1777	CD	LILE	116	37.846	33.375	2.910	1.00 25.67	B1
MOTA	1778	С	ILE	116	34.168	33.440	-0.585	1.00 23.92	B1
ATOM	1779	0	ILE	116	34.019	32.231	-0.862	1.00 27.98	B1
MOTA	1780	N	GLU	117	33.948	34.402		1.00 27.19	B1
ATOM	1781	CA	GLU	117	33.483	34.060	-1.468	1.00 29.29	B1
ATOM	1782	CB	GLU	117	31.938	33.962	-2.793	1.00 32.80	Bl
ATOM	1783	CG	GLU	117	31.267	35.318	-2.782	1.00 33.28	B1
ATOM	1784	CD	GLU	117	29.723	35.291	-2.609	1.00 35.65	B1
ātom	1785	OE1	. GLU	117	29.134	36.419	-2.613	1.00 39.26	Bl
ATOM	1786		GLU	117	29.100	34.172	-2.643	1.00 39.69	Bl
ATOM	1787	C	GLU	117	33.915	35.103	-2.569	1.00 40.90	Bl
ATOM	1788	0	GLU	117	34.548	36.141	-3.843	1.00 34.11	B1
ATOM	1789	N	ALA	118	33.485		-3.535	1.00 32.11	B1
MOTA	1790	CA	ALA	118	33.783	34.819	-5.066	1.00 36.51	B1
ATOM	1791	CB	ALA	118	33.338	35.630 34.887	-6.233	1.00 40.20	<b>B1</b>
ATOM	1792	C	ALA	118	33.186	37.007	-7.482	1.00 39.39	B1
ATOM	1793	0	ALA	118	32.180	37.281	-6.271	1.00 42.95	B1
ATOM	1794	N	LEU	119	33.826	37.251	-5.640	1.00 43.48	B1
ATOM	1795	CA	LEU	119	33.378	39.215	-7.070	1.00 47.53	B1
ATOM	1796	CB	LEU	119	31.859		-7.384	1.00 49.83	B1
MOTA	1797	CG	LEU	119	30.968	39.214	-7.654	1.00 49.43	Bl
MOTA	1798		LEU	119	31.476	40.454	-7.784	1.00 50.65	B1
MOTA	1799	CD2		119	29.527	41.381 39.980	-8.912	1.00 51.06	B1
MOTA	1800	C	LEU	119	33.756		-8.097	1.00 50.28	B1
ATOM	1801	OTI	LEU	119	34.683	39.763	-6.277	1.00 51.63	Bl
ATOM	1802		LEU	119	33.142	41.276	-5.528	1.00 51.82	B1
MOTA	1803	CB	TYR	3	22.353	25.516	-6.215	1.00 53.62	. B1
ATOM	1804	CG	TYR	3	23.167		-5.379	1.00 52.68	Cl
ATOM	1805		TYR	3	23.777	26.530	-4.597	1.00 55.12	Cl
ATOM	1806		TYR	3	24.534	27.607	-5.230	1.00 56.73	Cl
ATOM	1807		TYR	3	23.326	28.530 26.402	-4.502	1.00 57.50	Cl
ATOM	1808	CE2		3	24.059	27.308	-3.210	1.00 56.45	Cl
ATOM	1809	CZ	TYR	3	24.663		-2.471	1.00 56.85	Cl
ATOM	1810	OH	TYR			28.372	-3.111	1.00 57.87	C1
ATOM	1811	C	TYR	3	25.343 21.336	29.305	-2.339	1.00 58.87	Cl
ATOM	1812	ō	TYR	3		24.385	-3.370	1.00 47.65	Cl
ATOM	1813	N	TYR	3	20.156	24.720	-3.457	1.00 48.16	C1
ATOM	1814	CA	TYR	3 3	21.618	23.132	-5.551	1.00 50.61	C1
ATOM	1815	И	GLY	4	22.181	24.174	-4.640	1.00 50.00	C1
ATOM	1816	CA	GLY	4	21.970	24.178	-2.205	1.00 43.78	Cl
		~	GUI	4	21.319	24.320	-0.920	1.00 38.85	Cl

ATOM	1817	C	GLY	4	22.345	24.450	0.208	1.00 36.34	
MOTA	1818	0	GLY	4	23.551	24.279	-0.011	1.00 34.94	C1
MOTA	1819	N	ILE	5	21.879	24.771	1.417	1.00 32.79	C1 C1
ATOM	1820	CA	ILE	5	22.812	24.856	2.499	1.00 30.68	Cl
ATOM	1821	CB	ILE	5	23.048	26.321	2.948	1.00 30.63	Cl
MOTA	1822		ILE	5	23.451	27.158	1.751	1.00 30.56	Cl
ATOM	1823		ILE	5	21.785	26.866	3.658	1.00 28.48	· C1
ATOM	1824		TLE	5	21.859	28.351	3.966	1.00 29.65	Ci
ATOM	1825	C	ILE	5	22.278	24.030	3.675	1.00 30.17	Cl
ATOM	1826	0	ILE	5	21.067	23.869	3.858	1.00 28.91	Cl
ATOM	1827	N	GLY	6	23.204	23.501	4.470	1.00 28.77	Cl
ATOM	1828	CA	GLY	6	22.815	22.720	5.628	1.00 27.45	Cl
ATOM	1829	C	GLY	6	23.619	23.128	6.849	1.00 27.03	Cl
ATOM	1830	0	GLY	6	24.801	23.444	6.791	1.00 26.98	Cl
ATOM ATOM	1831	N	LEU	7	22.948	23.131	7.972	1.00 27.09	Cl
ATOM	1832 1833	CA	LEU	7	23.572	23.483	9.217	1.00 27.34	Cl
ATOM	1834	CB	LEU LEU	7	23.079	24.868	9.689	1.00 26.42	Cl
ATOM	1835		LEU	7	23.524	25.173	11.136	1:00 25.33	Cl
ATOM	1836	CD2		7	25.069	25.163	11.156	1.00 24.79	Cl
ATOM	1837	CD2	LEU	7	22.967	26.502	11.651	1.00 23.18	Cl
ATOM	1838	0	LEU	7	23.155	22.464	10.256	1.00 28.20	Cl
ATOM	1839	N	ASP	7	21.971	22.130	10.349	1.00 27.84	Cl
ATOM	1840	CA	ASP	8 8	24.102	21.939	11.023	1.00 29.28	Cl
ATOM	1841	CB	ASP	8	23.706 23.763	21.056	12.115	1.00 30.50	Cl
ATOM	1842	CG	ASP	8	<del>-</del>	19.571	11.768	1.00 31.66	Cl
ATOM	1843		ASP	8	23.427 24.372	18.685	13.011	1.00 35.63	C1
ATOM	1844		ASP	8	22.219	18.151 18.555	13.645	1.00 37.39	C1
ATOM	1845	c	ASP	8	24.585	21.300	13.405 13.323	1.00 36.31	Cl
ATOM	1846	ō	ASP	8	25.762	21.585	13.323	1.00 30.33	Cl
ATOM	1847	И	ILE	9	23.993	21.205	14.511	1.00 30.47 1.00 31.74	Cl
ATOM	1848	CA	ILE	9	24.678	21.363	15.784	1.00 31.74	Cl
ATOM	1849	CB	ILE	9	24.252	22.658	16.511	1.00 32.34	Cl
ATOM	1850	CG2	ILE	9	25.067	22.797	17.803	1.00 30.24	C1 C1
ATOM	1851	CG1	ILE	9	24.518	23.893	15.641	1.00 33.38	Cl
ATOM	1852	CD1	ILE	9	24.043	25.227	16.283	1.00 33.77	Cl
MOTA	1853	C	ILE	9	24.296	20.145	16.673	1.00 34.79	Cl
ATOM	1854	0	ILE	9	23.122	19.971	17.004	1.00 35.36	Cl
MOTA	1855	N	THR	io	25.269	19.328	17.073	1.00 35.74	Cl
ATOM	1856	CA	THR	10	24.994	18.137	17.882	1.00:37.27	Cl
ATOM	1857	CB	THR	10	25.472	16.876	17.144	1.00 37.49	Cl
ATOM	1858		THR	10	24.647	16.636	15.995	1.00 38.81	Cl
ATOM	1859		THR	10	25.451	15.678	18.065	1.00 38.55	Cl
ATOM	1860	C	THR	10	25.681°	18.138	19.248	1.00 38.47	Cl
ATOM	1861	0	THR	10	26.890	18.376	19.350	1.00 38.09	C1
ATOM	1862	N	GLU	11	24.937	17.808	20.297	1.00 40.65	Cl
ATOM	1863	CA	GLU	11	25.517	17.796	21.641	1.00 42.07	Cl
ATOM	1864	CB	GLU	11	24.445	17.698	22.704	1.00 44.46	Cl
ATOM	1865	CG	GLU	11	23.399	18.780	22.608	1.00 47.87	Cl
ATOM	1866	CD	GLU	11	22.055	18.287	22.052	1.00 50.81	Cl
ATOM	1867		GLU	11	21.992	17.793	20.875	1.00 52.69	Cl
ATOM	1868		GLU	11	21.042	18.409	22.790	1.00 52.15	Cl
ATOM	1869	C	GLU	11	26.487	16.655	21.798	1.00 42.23	C1
ATOM	1870	0	GLU	11	26.160	15.496	21.547	1.00 41.87	Cl
ATOM	1871	N	LEU	12	27.703	16.998	22.197	1.00 43.04	Cl
ATOM	1872	CA	LEU	12	28.755	16.015	22.402	1.00 44.92	Cl
ATOM	1873	CB	LEU	12	30.050	16.762	22.759	1.00 45.32	C1

MOTA	1874	CG	LEU	12	31.373	16.017	22.645	1.00 45.47	C1
MOTA	1875	CD1	LEU	12	31.521	15.493	21.223	1.00 45.90	Cl
ATOM	1876	CD2	LEU	12	32.531	16.952	22.988	1.00 45.63	Cl
MOTA	1877	C	LEU	12	28.445	14.905	23.462	1.00 45.67	Cl
MOTA	1878	0	LEU	12	28.808	13.750	23.266	1.00 46.27	Cl
ATOM	1879	N	LYS	13	27.804	15.257	24.570	1.00 46.36	Cl
ATOM	1880	CA	LYS	13	27.478	14.283	25.614	1.00 48.63	Cl
MOTA	1881	CB	LYS	13	26.628	14.935	26.733	1.00 48.16	Cl
ATOM	1882	CG	LYS	13	25.200	15.282	26.310	1.00 50.76	Cl
ATOM	1883	CD	LYS	13	24.417	16.187	27.292	1.00 52.14	Cl
MOTA	1884	CE	LYS	13	23.891	15.429	28.541	1.00 53.30	Cl
ATOM	1885	NZ	LYS	13	22.991	16.264	29.447	1.00 53.41	Cl
MOTA	1886	C	LYS	13	26.732	13.083	25.015	1.00 49.49	Cl
ATOM	1887	0	LYS	13	27.108	11.942	25.199	1.00 49.68	Cl
ATOM	1888	И	ARG	14	25.686	13.359	24.265	1.00 50.80	Cl
ATOM	1889	CA	ARG	14	24.892	12.318	23.663	1.00 52.14	Cl
ATOM	1890	СВ	ARG	14	23.783	12.965	22.866	1.00 51.84	Cl
ATOM	1891	CG	ARG	14	23.042	13.982	23.692	1.00 51.93	Cl
ATOM	1892	CD	ARG	14	22.047	14.703	22.828	1.00 53.26	Cl
ATOM	1893	NE	ARG	14	21.053	13.803	22.252	1.00 53.51	Cl
MOTA	1894	CZ	ARG	14	20.340	14.101	21.171	1.00 54.68	Cl
ATOM	1895		ARG	14	20.523	15.261	20.563	1.00 54.94	Cl
ATOM	1896		ARG	14	19.444	13.245	20.687	1.00 55.74	Cl
ATOM	1897	C	ARG	14	25.680	11.361	22.795	1.00 53.45	Cl
ATOM	1898	0	ARG	14	25.363	10.183	22.741	1.00 54.19	C1
ATOM	1899	N	ILE	15	26.717	11.843	22.128	1.00 54.83	Cl
MOTA	1900	CA	ILE	15	27.474	10.964	21.267	1.00 57.01	Cl
ATOM	1901	СВ	ILE	15	28.057	11.749	20.059	1.00 56.55	Cl
ATOM	1902	CG2	ILE	15	29.188	10.976	19.391	1.00 56.26	Cl
ATOM	1903	CG1	ILE	15	26.929	11.991	19.053	1.00 56.70	C1
ATOM	1904	CD1	ILE	15	27.329	12.663	17.774	1.00 56.92	Cl
ATOM	1905	C	ILE	15	28.547	10.195	22.020	1.00 58.74	Cl
ATOM	1906	0	ILE	15	28.958	9.114	21.606	1.00 59.22	C1
ATOM	1907	N	ALA	16	28.994	10.740	23.138	1.00 60.96	Cl
MOTA	1908	CA	ALA	16	30.002	10.064	23.939	1.00 63.12	C1
ATOM ATOM	1909	CB	ALA	16	30.797	11.077	24.740	1.00 63.01	Cl
ATOM	1910	C	ALA	16	29.254	9.132	24.881	1.00 64.75	Cl
ATOM	1911 1912	0	ALA	16	29.784	8.098	25.285	1.00 65.27	Cl
ATOM	1913	N CA	SER	17	28.017	9.519	25.208	1.00 66.19	Cl
ATOM	1914	·CB	SER SER	17	27.134	8.793	26.118	1.00 67.59	Cl
ATOM	1915	OG	SER	17	25.826	9.574	26.347	1.00 67.92	Cl
ATOM	1916	C	SER	17	26.016	10.786	27.054	1.00 67.73	C1
ATOM	1917	0	SER	17	26.757	7.405	25.628	1.00 68.66	·C1
ATOM	1918	И	MET	17	26.132	6.640	26.376	1.00 68.47	Cl
ATOM	1919	CA	MET	18 18	27.093	7.094	24.375	1.00 69.63	C1
ATOM	1920	CB	MET		26.786	5.777	23.798	1.00 70.99	Cl
ATOM	1921	CG	MET	18 18	26.851	5.853	22.277	1.00 71.06	Cl
ATOM	1922	SD	MET	18	25.973	6.933	21.711	1.00 71.97	Cl
ATOM	1923	CE	MET	18	26.030 24.315	6.980	19.905	1.00 73.05	Cl
ATOM	1924	C	MET		24.315	6.428	19.528	1.00 73.21	Cl
ATOM	1925	0	MET	18	28.673	4.697	24.321	1.00 71.40	C1
MOTA	1926	И	ALA	19	27.506	4.264	23.633	1.00 71.07	Cl
ATOM	1927	CA	ALA	19		4.270	25.551	1.00 72.22	Cl
ATOM	1928	СВ	ALA	19	28.341	3.281	26.219	1.00 73.14	C1 C1
ATOM	1929	C	ALA	19	27.573 28.821	2.671	27.415	1.00 73.41 1.00 73.29	Cl
ATOM	1930	0	ALA	19	29.755	2.189	25.267	1.00 73.29	Cl
	2330	•		±3	43.133	2.402	24.496	1.00 /3.21	, C1

MOTA	1931	N	GLY	20	28.187	1.022	25.339	1.00 73.39	Cl
MOTA	1932	CA	GLY	20	28.550	-0.088	24.468	1.00 73.28	Cl
MOTA	1933	С	GLY	20	27.835	0.042	23.133	1.00 72.78	Cl
MOTA	1934	0	GLY	20	28.124	-0.687	22.172	1.00 73.18	Cl
MOTA	1935	N	ALA	21	26.909	0.994	23.074	1.00 72.11	Cl
ATOM	1936	CA	ALA	21	26.152	.1.257	21.864	1.00 71.43	Cl
ATOM	1937	CB	ALA	21	24.775	1.796	22.230	1.00 71.48	C1
MOTA	1938	С	ALA	21	26.869	2.234	20.915	1.00 70.86	Cl
ATOM	1939	0	ALA	21	26.378	2.496	19.814	1.00 71.29	Cl
MOTA	1940	N	GLN	22	28.026	2.767	21.310	1.00 69.99	Cl
ATOM	1941	CA	GLN	22	28.721	3.723	20.435	1.00 68.84	Cl
ATOM	1942	CB	GLN	22	29.765	4.560	21.216	1.00 69.02	C1
ATOM	1943	CG	GLN	22	30.326	5.758	20.410	1.00 69.19	Cl
ATOM	1944	CD	GLN GLN	22 22	31.497 31.310	6.497 7.185	21.087 22.095	1.00 69.34 1.00 69.45	C1 C1
ATOM	1945	OE1 NE2		22	32.709	6.356	20.521	1.00 69.45	Cl
ATOM	1946 1947	C NEZ	GLN	22	29.391	3.081	19.218	1.00 68.39	Cl
ATOM ATOM	1947	0	GLN	22	29.385	3.660	18.117	1.00 67.30	Cl
ATOM	1949	и	LYS	23	29.960	1.887	19.405	1.00 66.01	Cl
MOTA	1950	CA	LYS	23	30.647	1.197	18.306	1.00 63.66	Cl
ATOM	1951	CB	LYS	23	31.376	-0.048	18.820	1.00 63.88	Cl
MOTA	1952	C	LYS	23	29.697	0.828	17.178	1.00 61.94	Cl
ATOM	1953	ō	LYS	23	30.024	1.040	16.009	1.00 61.92	Cl
ATOM	1954	N	ALA	24	28.531	0.276	17.501	1.00 59.42	Cl
ATOM	1955	CA	ALA	24	27.608	-0.064	16.433	1.00 57.41	Cl
ATOM	1956	CB	ALA	24	26.401	-0.809	16.978	1.00 58.14	Cl
ATOM	1957	C	ALA	24	27.188	1.243	15.774	1.00 55.96	Cl
ATOM	1958	ō	ALA	24	26.959	1.309	14.560	1.00 55.56	Cl
ATOM	1959	N	PHE	25	27.096	2.293	16.585	1.00 54.55	Cl
ATOM	1960	CA	PHE	25	26.742	3.606	16.069	1.00 53.36	C1
ATOM	1961	CB	PHE	25	26.589	4.605	17.206	1.00 54.38	Cl
MOTA	1962	CG	PHE	25	26.245	6.010	16.750	1.00 54.54	Cl
ATOM	1963	CD1	PHE	<b>25</b> .	25.001	6.302	16.224	1.00 53.95	C1
ATOM	1964	CD2	PHE	25	27.175	7.044	16.869	1.00 54.96	Cl
MOTA	1965	CE1	PHE	25	24.690	7.594	15.826	1.00 54.26	Cl
MOTA	1966	CE2	PHE	25	26.863	8.348	16.468	1.00 54.29	C1
MOTA	1967	CZ	PHE	25	25.622	8.616	15.950	1.00 54.55	C1
MOTA	1968	C	PHE	25	27.793	4.127	15.089	1.00 52.32	C1
MOTA	1969	0	PHE	25	27.439	4.764	14.115	1.00 51.87	C1
ATOM	1970	N	ALA	26	29.077	3.876	15.348	1.00 50.87	Cl
MOTA	1971	CA	ALA	26	30.116	4.333	14.436	1.00 49.99	Cl
MOTA	1972	CB	ALA	26	31.478	4.112	15.040	1.00 50.04	Cl
MOTA	1973	C	ALA	26	29.997	3.573	13.123	1.00 49.93	CI
ATOM	1974	0	ALA	26	30.188	4.127	12.033	1.00 49.20	C1 C1
ATOM	1975	И	GLU	27	29.649	2.295	13.234	1.00 50.16 1.00 50.47	Cl
ATOM	1976	CA	GLU	27	29.496	1.448	12.070	1.00 50.47	Cl
MOTA	1977	CB	GLU	27	29.173	0.024	12.510	1.00 54.33	Cl
MOTA	1978	CG	GLU	27	30.367	-0.815	12.987	1.00 54.33	Cl
MOTA	1979	CD	GLU	27	29.916	-2.070	13.746	1.00 56.02	Cl
ATOM	1980		GLU	27	28.944	-2.729	13.292	1.00 55.46	Cl
ATOM	1981		GLU	27	30.533	-2.398	14.787	1.00 49.87	Cl
ATOM	1982	C	GLU	27	28.419	1.931	11.093	1.00 49.63	Cl
ATOM	1983	0	GLU	27	28.528	1.710	9.895	1.00 49.12	. C1
ATOM	1984	N	ARG	28	27.360	2.567	11.569	1.00 49.12	Cl
ATOM	1985	CA	ARG	28	26.371	2.984	10.596	1.00 51.09	Cl
ATOM	1986	CB	ARG	28	24.942	2.738		1.00 54.01	Cl
MOTA	1987	CG	ARG	28	24.450	3.590	12.237	1.00 34.01	~_

ATO		CD	ARG	28	23.036	3.114	12.653	1.00 55.93	Cl
OTA		NE	ARG	28	22.209	2.863	11.476	1.00 57.95	Cl
ATO		CZ	ARG	28	20.924	2.507	11.517	1.00 58.79	Cl
ATO		NH1		28	20.313	2.352	12.684	1.00 59.69	Cl
ATO	-		ARG	28	20.243	2.340	10.389	1.00 58.73	Cl
ATO		C	ARG	28	26.553	4.409	10.124	1.00 48.21	Cl
ATO		0	ARG	28	26.098	4.762	9.053	1.00 47.43	Cl
ATO		N	ILE	29	27.272	5.201	10.912	1.00 47.42	Cl
ATO		CA	ILE	29	27.538	6.605	10.614	1.00 46.88	Cl
ATO		CB	ILE	29	27.707	7.408	11.976	1.00 47.32	Cl
ATO	-	CG2	ILE	29	28.331	8.779	11.771	1.00 47.45	Cl
ATO		CG1	ILE	29	26.334	7.637	12.586	1.00 48.41	Cl
ATO		CDI	ILE	29	25.391	8.300	11.593	1.00 46.71	Cl
ATO		0	ILE	29	28.777	6.806	9.728	1.00 46.01	Cl
ATO		И	LEU	29 30	28.777 29.803	7.696	8.896	1.00 45.66	Cl
ATO		CA	LEU	30	31.074	5.956 6.085	9.893 9.173	1.00 45.16	Cl
ATO		CB	LEU	30	32.230	5.891	10.149	1.00 44.13	Cl
ATO		CG	LEU	30	32.220	6.792	11.380	1.00 42.42 1.00 40.57	C1 C1
ATO			LEU	30	33.481	6.580	12.183	1.00 40.37	Cl
ATO		CD2	LEU	30	32.155	8.253	10.937	1.00 39.88	Cl
ATO		C	LEU	30	31.314	5.199	7.983	1.00 44.93	Cl
ATO	-	Ō	LEU	30	30.702	4.163	7.832	1.00 46.00	Cl
ATO		N	THR	31	32.186	5.612	7.088	1.00 45.98	Cl
ATO		CA	THR	31	32.469	4.743	5.961	1.00 47.55	Cl
ATO		CB	THR	31	32.961	5.509	4.736	1.00 46.23	Cl
ATO		0 <b>G</b> 1		31	34.189	6.165	5.066	1.00 46.01	Cl
ATO	M 2015	CG2	THR	31	31.927	6.503	4.262	1.00 45.18	Cl
ATO	M 2016	C	THR	31	33.632	3.869	6.463	1.00 49.42	Cl
ATO	M 2017	0	THR	31	34.085	4.033	7.610	1.00 50.48	Cl
ATO	M 2018	N	ALA	32	34.123	2.963	5.616	1.00 50.64	Cl
ATO	M 2019	CA	ALA	32	35.253	2.106	5.991	1.00 51.68	C1
ATO		CB	ALA	32	35.528	1.047	4.876	1.00 52.35	Cl
ATO		C	ALA	32	36.491	2.965	6.219	1.00 52.19	Cl
ATO		0	ALA	32	37.197	2.814	7.219	1.00 52.47	Cl
ATO		N	SER	33	36.759	3.875	5.290	1.00 52.78	Cl
ATO		CA	SER	33	37.923	4.754	5.443	1.00 53.37	Cl
ATO		CB	SER	33	38.091	5.616	4.192	1.00 54.79	Cl
ATO	. – -	OG	SER	33	39.472	5.820	3.917	1.00 57.32	Cl
ATO		C	SER	33	37.852	5.661	6.688	1.00 52.95	Cl
ATO		0	SER	33	38.883	6.095	7.211	1.00 53.00	Cl
ATO		N	GLU	34	36.635	5.958	7.152	1.00 52.41	Cl
ATO		CA	GLU	34	36.455	6.784	8.347	1.00 52.05	. C1
ATO		CB	GLU	34	35.114	7.540	8.280	1.00 51.02	Cl
ATO		CG	GLU	34	35.061	8.615	7.156	1.00 49.60	Cl
ATO		CD	GLU	34	33.753	9.410	7.130	1.00 48.95	Cl
ATO:			GLU GLU	34	32.684	8.769	7.085	1.00 47.99	Cl
ATO		C	GLU	34 34	33.787	10.666	7.156 9.618	1.00 47.77 1.00 52.70	C1 C1
ATO		0	GLU	34	36.537 36.952	5.909 6.377	10.666	1.00 52.70	Cl
ATO		N	LEU					1.00 53.84	C1
ATO		CA	LEU	. 35 35	36.139 36.242	4.639 3.754	9.531 10.695	1.00 53.84	Cl
ATO		CB	LEU	35 35	35.546	2.420	10.633	1.00 55.12	Cl
ATO		CG	LEU	35 35	34.076	2.420	10.432	1.00 55.35	Cl
ATO			LEU	35 35	33.600	0.893	10.820	1.00 55.25	Cl
ATO			LEU	35 35	33.898	2.501	12.333	1.00 54.93	Cl
ATO		.C	LEU	35 35	37.705	3.480	11.030	1.00 55.08	Cl
	- 200 - 3	. —			55	3.400			

MOTA	2045	0	LEU	35	38.115	3.573	12.191	1.00 55.65	Cl
ATOM	2046	N	ASP	36	38.485	3.130	10.009	1.00 55.26	Cl
ATOM	2047	CA	ASP	36	39.904	2.848	10.203	1.00 55.75	C1
MOTA	2048	CB	ASP	36	40.635	2.737	8.850	1.00 56.59	Cl
MOTA	2049	CG	ASP	36	40.120	1.578	7.996	1.00 57.54	Cl
MOTA	2050	OD1	ASP	36	39.855	0.505	8.576	1.00 57.49	Cl
ATOM	2051	OD2	ASP	36	39.985	1.732	6.753	1.00 58.09	Cl
ATOM	2052	C	ASP	36	40.478	3.993	11.016	1.00 55.72	Cl
MOTA	2053	0	ASP	36	41.169	3.788	11.997	1.00 56.02	Cl
ATOM	2054	N	GLN	37	40.166	5.210	10.600	1.00 55.73	Cl
MOTA	2055	CA	GLN	37	40.619	6.405	11.283	1.00 55.71	Cl
MOTA	2056	CB	GLN	37	40.149	7.628	10.521	1.00 54.93	Cl
ATOM	2057	CG	GLM	37	41.213	8.381	9.795	1.00 54.35	C1
MOTA	2058	CD	GLN	37	40.631	9.593	9.112	1.00 54.07	Cl
MOTA	2059		GLN	37	39.960	9.478	8.075	1.00 52.71	C1
MOTA	2060	NE2	GLN	37	40.858	10.764	9.705	1.00 52.34	Cl
MOTA	2061	C	GLN	37	40.101	6.530	12.708	1.00 56.36	Cl
MOTA	2062	0	GLN	37	40.839	6.929	13.607	1.00 56.00	Cl
ATOM	2063	N	TYR	38	38.821	6.219	12.909	1.00 57.07	Cl
ATOM	2064	CA	TYR	38	38.219	6.361	14.237	1.00 58.12	Cl
ATOM	2065	CB	TYR	38	36.686	6.298	14.132	1.00 56.44	Cl
MOTA	2066	CG	TYR	38	35.946	5.851	15.376	1.00 55.07	Cl
MOTA	2067		TYR	38	35.634	4.492	15.577	1.00 54.58	Cl
ATOM	2068		TYR	38	34.888	4.081	16.665	1.00 54.40	Cl
ATOM	2069		TYR	38	35.495	6.775	16.309	1.00 54.17	Cl
ATOM	2070		TYR	38	34.743	6.383	17.403	1.00 54.20	Cl
ATOM	2071	CZ	TYR	38	34.434	5.031	17.579	1.00 55.06	Cl
ATOM	2072	OH	TYR	38	33.624	4.643	18.637	1.00 54.94	Cl
ATOM	2073	C	TYR	38	38.746	5.362	15.259	1.00 59.63	Cl
ATOM	2074	0	TYR	38	38.891	5.689	16.444	1.00 59.42	Cl
ATOM	2075	N	TYR	39	39.033	4.147	14.814	1.00 61.46	C1
ATOM	2076	CA	TYR	39	39.556	3.170	15.746	1.00 63.73	Cl
ATOM	2077	CB	TYR	39	39.643	1.793	15.071	1.00 64.25	C1
ATOM ATOM	2078	CG	TYR TYR	39	38.272	1.181	14.835	1.00 64.53	Cl
ATOM	2079 2080		TYR	39	37.344	1.080	15.881	1.00 64.91	C1
ATOM	2081		TYR	39	36.072	0.506	15.680	1.00 65.28	C1
ATOM	2081		TYR	39	37.905	0.696	13.577	1.00 64.93	Cl
ATOM	2083	CZ	TYR	39	36.642	0.121	13.361	1.00 65.37	Cl
ATOM	2084	OH	TYR	39 39	35.729 34.476	0.030	14.418	1.00 65.70 1.00 66.41	C1
ATOM	2085	C	TYR	3 <i>9</i> 39	40.921	-0.536 3.650			C1 C1
ATOM	2086	o	TYR	39	41.182	3.658	17.456	1.00 65.10	Cl
ATOM	2087	N	GLU	40	41.762	4.121	15.335	1.00 65.88	.C1
ATOM	2088	CA	GLU	40	43.089	4.588	15.700	1.00 66.96	Cl
ATOM	2089	CB	GLU	40	43.841	5.007	14.437	1.00 68.15	CI.
ATOM	2090	CG	GLU	40	43.834	3.971	13.306	1.00 70.60	Cl
ATOM	2091	æ	GLU	40	44.773	2.804	13.551	1.00 71.61	Cl
ATOM	2092		GLU-	40	45.990	3.062	13.726	1.00 72.41	Cl
ATOM	2093		GLU	40	44.300	1.640	13.560	1.00 72.06	Cl
ATOM	2094	C	GLU	40	43.169	5.739	16.718	1.00 67.18	Cl
ATOM	2095	ō	GLU	40	44.278	6.191	17.025	1.00 67.28	Cl
ATOM	2096	N	LEU	41	42.041	6.217	17.254	1.00 67.17	Cl
ATOM	2097	CA	LEU	41	42.099	7.348	18.199	1.00 66.97	Cl
ATOM	2098	СВ	LEU	41	41.165	8.493	17.752	1.00 68.22	Cl
ATOM	2099	CG	LEU	41	40.458	8.591	16.389	1.00 69.08	Cl
ATOM	2100		LEU	41	39.582	9.844	16.385	1.00 69.66	Cl
ATOM	2101		LEU	41	41.463	8.646	15.253	1.00 68.80	Cl
						3.340			

MOTA	2102	С	LEU	41	41.815	7.099	19.673	1.00 66.10	Cl
ATOM	2103	0	LEU	41	41.316	6.049	20.056	1.00 65.84	Cl
ATOM	2104	И	SER	42	42.121	8.118	20.481	1.00 65.38	C1
ATOM	2105	CA	SER	42	41.900	8.119	21.927	1.00 64.65	C1
ATOM	2106	CB	SER	42	42.509	9.379	22.550	1.00 65.06	Cl
ATOM	2107	OG	SER	42	41.588	.10.451	22.500	1.00 65.28	Cl
ATOM	2108	С	SER	42	40.395	8.120	22.188	1.00 64.02	Cl
MOTA	2109	0	SER	42	39.614	8.129	21.247	1.00 64.03	Cl
ATOM	2110	N	ALA	43	39.982	8.135	23.453	1.00 63.26	Cl
ATOM	2111	CA	ALA	43	38.548	8.115	23.771	1.00 62.62	Cl
ATOM	2112	CB	ALA	43	38.320	7.715	25.241	1.00 63.05	Cl
MOTA	2113	С	ALA	43	37.864	9.443	23.490	1.00 62.12	Cl
ATOM	2114	0	ALA	43	36.805	9.473	22.853	1.00 61.61	Cl
ATOM	2115	N	ALA	44	38.465	10.530	23.986	1.00 61.56	Cl
MOTA	2116	CA	ALA	44	37.933	11.878	23.798	1.00 60.59	Cl
ATOM	2117	CB	ALA	44	38.706	12.916	24.672	1.00 60.16	Cl
ATOM	2118	C	ALA	44	37.978	12.284	22.326	1.00 59.80	Cl
ATOM	2119	0	ALA	44	37.012	12.828	21.824	1.00 59.42	Cl
ATOM	2120	N	ARG	45	39.098	12.030	21.649	1.00 59.45	Cl
ATOM	2121	CA	ARG	45	39.235	12.370	20.232	1.00 58.82	Cl
ATOM	2122	CB	ARG	45	40.678	12.131	19.761	1.00 59.70	Cl
MOTA	2123	CG	ARG	45	41.752	12.782	20.644	1.00 62.25	Cl
ATOM	2124	CD	ARG	45	41.628	14.315	20.713	1.00 64.07	Cl
MOTA	2125	NE	ARG	45	42.275	14.966	19.581	1.00 65.16	Cl
ATOM	2126	CZ	ARG	45	42.180	16.264	19.297	1.00 66.26	Cl
ATOM	2127	NH1	ARG	45	41.458	17.081	20.062	1.00 66.17	Cl
MOTA	2128	NH2	ARG	45	42.811	16.745	18.232	1.00 66.74	Cl
ATOM	2129	C	ARG	45	38.265	11.541	19.367	1.00 57.52	C1
ATOM	2130	0	ARG	45	37.920	11.938	18.252	1.00 56.92	Cl
ATOM	2131	N	LYS	46	37.847	10.387	19.894	1.00 56.06	Cl
ATOM	2132	CA	LYS	46	36.907	9.486	19.224	1.00 54.03	Cl
MOTA	2133	CB	LYS	46	36.846	8.128	19.929	1.00 54.55	Cl
ATOM	2134	CG	LYS	46	37.435	6.971	19.164	1.00 54.57	Cl
MOTA	2135	CD	LYS	46	37.268	5.714	19.992	1.00 55.22	Cl
ATOM	2136	CE	LYS	46	38.104	4.549	19.478	1.00 55.72	Cl
ATOM	2137	NZ	LYS	46	38.363	3.564	20.603	1.00 56.26	Cl
MOTA	2138	C	LYS	46	35.520	10.089	19.273	1.00 52.55	Cl
ATOM	2139	0	LYS	46	34.821	10.106	18.258	1.00 52.04	Cl
ATOM	2140	N	ASN	47	35.121	10.569	20.454	1.00 51.04	Cl
ATOM	2141	CA	ASN	47	33.793	11.169	20.611	1.00 50.28	Cl
ATOM	2142	CB	ASN	47	33.479	11.536	22.077	1.00 50.72	Cl
ATOM	2143	CG	ASN	47	33.383	10.309	23.007	1.00 51.16	Cl
ATOM	2144	OD1	ASN	47	33.148	9.176	22.575	1.00 50.76	Cl
ATOM	2145	ND2	ASN	47	33.551	10.552	24.298	1.00 51.61	Cl
ATOM	2146	C	ASN	47	33.665	12.430	19.760	1.00 49.27	Cl
ATOM	2147	0	ASN	47	32.597	12.715	19.215	1.00 49.62	Cl
MOTA	2148	N	GLU	48	34.756	13.181	19.668	1.00 47.01	Cl
ATOM	2149	CA	GLU	48	34.787	14.405	18.890	1.00 45.47	Cl
ATOM	2150	CB	GLU	48	36.056	15.175	19.232	1.00 45.97	Cl
ATOM	2151	CG	GLU	48	36.313	16.414	18.420	1.00 48.61	C1
ATOM	2152	CD	GLU	48	37.700	17.005	18.710	1.00 50.94	Cl
ATOM	2153	OE1	GLU	48	37.954	17.311	19.905	1.00 51.25	Cl
MOTA	2154	OE2	GLU	48	38.523	17.146	17.756	1.00 51.22	Cl
MOTA	2155	C	GLU	48	34.710	14.105	17.385	1.00 43.65	Cl
MOTA	2156	0	GLU	48	33.909	14.705	16.674	1.00 43.81	Cl
ATOM	2157	N	PHE	49	35.530	13.169	16.924	1.00 41.45	Cl
ATOM	2158	CA	PHE	49	35.583	12.746	15.520	1.00 40.40	. C1

MOTA	2159	CB	PHE	49	36.602	11.606	15.401	1.00 39.94	Cl
ATOM	2160	CG	PHE	49	36.716	11.001	14.030	1.00 39.65	Cl
MOTA	2161	CD1	PHE	49	37.568	11.557	13.076	1.00 39.24	Cl
ATOM	2162		PHE	49	35.956	9.872	13.683	1.00 39.25	Cl
ATOM	2163	CE1	PHE	49	37.664	10.995	11.786	1.00 39.19	C1
ATOM	2164	CE2	PHE	49	36.045	9.309	12.416	1.00 39.13	Cl
ATOM	2165	CZ	PHE	49	36.898	9.870	11.465	1.00 39.13	Cl
ATOM	2166	C	PHE	49	34.223	12.285	14.969	1.00 39.44	Cl
ATOM	2167	0	PHE	49	33.853	12.569	13.837	1.00 38.77	Cl
ATOM	2168	N	LEU	50	33.493	11.585	15.822	1.00 39.24	Cl
ATOM	2169	CA	LEU	50	32.181	11.017	15.536	1.00 38.43	Cl
ATOM	2170	CB	LEU	50	31.894	9.933	16.563	1.00 40.17	Cl
ATOM	2171	CG	LEU	50	30.869	8.849	16.338	1.00 41.67	Cl
ATOM	2172		LEU	50	31.036	8.226	14.967	1.00 41.34	Cl
ATOM	2173	CD2		.50	31.076	7.817	17.485	1.00 42.66	Cl
MOTA	2174	C	LEU	50	31.096	12.080	15.584	1.00 36.53	Cl
ATOM	2175	0	LEU	50	30.238	12.089	14.728	1.00 35.96	Cl
ATOM	2176	N	ALA	51	31.122	12.964	16.574	1.00 34.40	Cl
ATOM	2177	CA	ALA	51	30.119	14.037	16.624	1.00 33.68	C1
ATOM	2178	CB	ALA	51	30.253	14.848	17.916	1.00 32.94	C1
ATOM	2179	C	ALA	51	30.273	14.978	15.397	1.00 33.10	Cl
ATOM	2180	0	ALA	51	29.285	15.500	14.898	1.00 32.94	C1
ATOM	2181	И	GLY	52	31.507	15.173	14.925	1.00 31.96	Cl
ATOM	2182	CA	GLY	52	31.733	16.031	13.780	1.00 31.80	Cl
ATOM	2183	C	GLY	52	31.252	15.353	12.494	1.00 31.78	Cl
ATOM	2184	0	GLY	<b>52</b> 、	30.628	15.983	11.644	1.00 31.70	C1
ATOM	2185	N	ARG	53	31.541	14.069	12.343	1.00 30.89	Cl
ATOM	2186	CA	ARG	53	31.095	13.360	11.178	1.00 30.82	Cl
ATOM	2187	СВ	ARG	· .53	31.696	11.955	11.140	1.00 31.36	C1
ATOM	2188	CG	ARG	53	33.218	11.928	10.921	1.00 32.07	C1
ATOM	2189	9	ARG	53	33.616	12.890	9.806	1.00 32.32	Cl
ATOM	2190	NE	ARG	53	34.692	12.368	8.969	1.00 33.86	C1
ATOM ATOM	2191	CZ	ARG	53	35.987	12.658	9.095	1.00 33.37	Cl
ATOM	2192 2193		ARG	<b>53</b>	36.428	13.486	10.054	1.00 33.63	C1
ATOM	2194	NH2		53	36.841	12.146	8.220	1.00 32.05	Cl
ATOM	2195	С 0	ARG	53	29.569	13.319	11.182	1.00 31.61	Cl
ATOM	2196	и	ARG	53	28.937	13.501	10.152	1.00 31.36	Cl
ATOM	2196	CA	PHE	54	28.962	13.127	12.347	1.00 31.34	Cl
ATOM	2198	CB	PHE	54	27.525	13.108	12.372	1.00 31.44	Cl
ATOM	2199	CG	PHE	54 54	27.029	12.706	13.743	1.00 31.60	Cl
ATOM	2200		PHE	54 54	25.526 24.785	12.607		1.00 31.67	C1
ATOM	2201		PHE	54 54		13.643	14.338	1.00 31.48	Cl
ATOM	2202		PHE	5 <b>4</b>	24.872	11.431	13.469	1.00 33.28	.C1
ATOM	2203		PHE	54 54	23.417	13.532	14.512	1.00 33.12	Cl
ATOM	2204	cz	PHE	54	23.498	11.304	13.636	1.00 33.43	C1 .
ATOM	2205	C	PHE	5 <b>4</b>	22.768 26.956	12.356	14.159	1.00 32.71	CI
ATOM	2206	ō	PHE	54	25.979	14.500	12.004	1.00 31.59	C1
ATOM	2207	N	ALA	55	27.557	14.607 15.561	11.221 12.556	1.00 31.51 1.00 30.03	C1
ATOM	2208	CA	ALA	55 55	27.078	16.901	12.244	1.00 30.03	C1
ATOM	2209	СВ	ALA	55 55	27.818			1.00 27.86	C1
ATOM	2210	C	ALA	55 55	27.269	17.954 17.201	13.085 10.759	1.00 27.86	C1
ATOM	2211	ō	ALA	55	26.382	17.727	10.759	1.00 27.31	Cl
ATOM	2212	N	ALA	56	28.422	16.827	10.033	1.00 27.19	C1 C1
ATOM	2213	CA	ALA	56	28.714	17.144	8.872	1.00 27.05	C1
ATOM	2214	СВ	ALA	56	30.187	16.884	8.580	1.00 27.05	Cl
MOTA	2215	C	ALA	56	27.795	16.412	7.896	1.00 27.88	C1
•		-				AV.714	1.030	2.00 27.00	~~

MOTA	2216	0	ALA	56	27.235	17.025	6.991	1.00 26.74	Cl
MOTA	2217	N	LYS	57	27.608	15.107	8.109	1.00 29.56	C1
MOTA	2218	CA	LYS	57	26.730	14.322	7.225	1.00 31.03	Cl
ATOM	2219	CB	LYS	57	26.852	12.839	7.583	1.00 31.20	Cl
MOTA	2220	CG	LYS	57	28.325	12.401	7.540	1.00 32.34	Cl
ATOM	2221	CD	LYS	57	28.512	·10.871	7.527	1.00 32.86	C1
ATOM	2222	CE	LYS	57	29.964	10.523	7.125	1.00 32.77	Cl
MOTA	2223	NZ	LYS	57	30.182	9.068	6.836	1.00 34.27	Cl
ATOM	2224	C	LYS	57	25.274	14.819	7.324	1.00 31.24	Cl
ATOM	2225	0	LYS	57	24.590	14.833	6.318	1.00 31.30	Cl
ATOM	2226	N	GLU	58	24.818	15.223	8.521	1.00 31.14	Cl
ATOM	2227	CA	GLU	58	23.469	15.773	8.701	1.00 32.92	Cl
ATOM	2228	CB	GLU	58	23.160	16.046	10.174	1.00 36.48	Cl
ATOM	2229	CG	GLU	58	22.886	14.782	11.009	1.00 41.69	Cl
ATOM	2230	CD	GLU	58	21.613	14.062	10.525	1.00 45.03	C1
ATOM	2231	OE1	GLU	58 50	20.590	14.119	11.249	1.00 46.29	Cl
ATOM ATOM	2232 2233	C C	GLU GLU	58 58	21.642	13.468	9.407	1.00 47.23	Cl
ATOM	2234	0	GLU	58	23.369	17.113	7.960	1.00 33.31	C1
ATOM	2234	И	ALA	58 59	22.386 24.380	17.346	7.263	1.00 33.22	Cl
ATOM	2236	CA	ALA	59	24.364	17.986 19.285	8.106 7.436	1.00 32.66 1.00 32.45	Cl
ATOM	2237	CB	ALA	5 <i>9</i>	25.613	20.073	7.756	1.00 32.45	C1
ATOM	2238	C	ALA	5 <i>9</i>	24.309	19.048	5.937	1.00 30.78	C1 C1
ATOM	2239	o	ALA	59	23.592	19.712	5.207	1.00 32.54	Cl
ATOM	2240	N	PHE	60	25.109	18.110	5.483	1.00 33.43	Cl
ATOM	2241	CA	PHE	60	25.158	17.816	4.065	1.00 35.36	Cl
ATOM	2242	CB	PHE	60	26.240	16.789	3.766	1.00 35.51	Cl
ATOM	2243	CG	PHE	60	26.301	16.398	2.312	1.00 37.38	Cl
ATOM	2244		PHE	60	27.001	17.173	1.391	1.00 38.64	C1
ATOM	2245		PHE	60	25.663	15.256	1.863	1.00 37.90	Cl
ATOM	2246		PHE	60	27.061	16.786	0.032	1.00 38.44	Cl
ATOM	2247	CE2	PHE	60	25.715	14.871	0.532	1.00 37.72	C1
ATOM	2248	CZ	PHE	60.	26.411	15.626	0.379	1.00 38.22	Cl
MOTA	2249	C	PHE	60	23.815	17.239	3.606	1.00 35.65	Cl
ATOM	2250	0	PHE	60	23.355	17.504	2.497	1.00 35.06	Cl
ATOM	2251	N	SER	61	23.196	16.441	4.470	1.00 36.40	Cl
MOTA	2252	CA	SER	61	21.940	15.852	4.072	1.00 37.14	Cl
MOTA	2253	CB	SER	61	21.545	14.691	5.006	1.00 36.12	C1
ATOM	2254	OG	SER	61	20.814	15.139	6.126	1.00 35.05	Cl
ATOM	2255	C	SER	61	20.869	16.940	4.016	1.00 37.16	Cl
ATOM	2256	.0	SER	61	19.964	16.870	3.190	1.00 38.46	Cī
ATOM	2257	И	LYS	62	20.970	17.955	4.857	1.00 37.48	Cl
ATOM	2258	CA	LYS	62	19.954	19.006	4.813	1.00 37.83	. C1
ATOM	2259	СВ	LYS	62	20.021	19.903	6.021	1.00 38.42	Cl
ATOM	2260	CG	LYS	62	19.610	19.236	7.327	1.00 40.35	Cl
MOTA	2261	8	LYS	62 ·	19.854	20.259	8.406	1.00 41.61	Cl
MOTA	2262	CE	LYS	62	19.418	19.814	9.748	1.00 43.22	Cl
ATOM	2263	NZ	LYS	62	18.737	20.988	10.385	1.00 44.06	Cl
ATOM	2264	C	LYS	62	20.178	19.805	3.557	1.00 37.95	Cl
ATOM	2265	0	LYS	62	19.233	20.045	2.826	1.00 37.84	Cl
ATOM	2266	N	ALA	63	21.425	20.183	3.293	1.00 38.21	C1 C1
ATOM	2267 2268	CA	ALA	63 63	21.790 23.306	20.925	2.090	1.00 39.70	. C1
ATOM ATOM	2268	CB C	ALA ALA	63 63		21.094	1.994	1.00 38.23 1.00 40.64	Cl
ATOM			ALA	63 63	21.308	20.245	0.811	1.00 40.84	Cl
ATOM	2270	O N	PHE		20.823	20.897	-0.098	1.00 40.84	Cl
ATOM	2271 2272	N CA	PHE	6 <b>4</b> 6 <b>4</b>	21.513	18.939	0.737	1.00 43.43	Cl
MIUM	4414	$\sim$	PRE	04	21.137	18.134	-0.423	T. A. 43.43	

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MOTA	2273	CB	PHE	64	21.748	16.747	-0.186	1.00 44.71	Cl
MOTA	2274	CG	PHE	64	21.435	15.714	-1.242	1.00 46.29	Cl
MOTA	2275		PHE	64	22.246	15.577	-2.371	1.00 47.02	Cl
ATOM	2276		PHE	64	20.373	14.808	-1.059	1.00 47.22	Cl
ATOM	2277		PHE	64 ·	22.019	14.543	-3.300	1.00 47.15	Cl
ATOM	2278		PHE	64	20.135	.13.762	-1.985	1.00 47.50	Cl
MOTA	2279	CZ	PHE	64	20.968	13.638	-3.107	1.00 46.63	Cl
ATOM	2280	C	PHE	64	19.587	18.095	-0.581	1.00 43.41	Cl
MOTA	2281	0	PHE	64	19.077	17.679	-1.608	1.00 43.04	Cl
ATOM	2282	N	GLY	65	18.861	18.515	0.464	1.00 44.00	Cl
ATOM	2283	CA	GLY	65	17.401	18.551	0.442	1.00 44.61	Cl
ATOM	2284	C	GLY	65	16.547	17.360	0.900	1.00 45.23	Cl
ATOM	2285	0	GLY	65	15.319	17.481	1.024	1.00 44.77	Cl
ATOM	2286	N	THR	66	17.162	16.214	1.173	1.00 46.05	Cl
ATOM	2287	CA	THR	66	16.371	15.047	1.573	1.00 46.97	Cl
ATOM	2288	CB	THR	66	16.677	13.833	0.689	1.00 46.94	Cl
ATOM	2289	OG1	THR	66	18.043	13.416	0.900	1.00 47.06	Cl
ATOM	2290	CG2	THR	66	16.451	14.197	-0.760	1.00 46.70	Cl
ATOM	2291	C	THR	66	16.499	14.540	2.986	1.00 47.71	C1
MOTA	2292	0	THR	66	15.578	13.908	3.488	1.00 47.47	Cl
MOTA	2293	N	GLY	67	17.628	14.819	3.638	1.00 48.74	Cl
ATOM	2294	CA	GLY	67	17.816	14.259	4.966	1.00 49.20	Cl
ATOM	2295	C	GLY	67	18.312	12.825	4.726	1.00 49.52	C1
MOTA	2296	0	GLY	67	18.463	12.380	3.569	1.00 49.17	Cl
ATOM	2297	И	ILE	68	18.599	12.106	5.802	1.00 50.08	Cl
MOTA	2298	CA	ILE	68	19.068	10.726	5.679	1.00 50.36	C1
MOTA	2299	CB	ILE	68	19.859	10.258	6.956	1.00 49.26	Cl
MOTA	2300	CG2	ILE	68	20.194	8.758	6.867	1.00 47.83	Cl
ATOM	2301		ILE	68	21.154	11.072	7.095	1.00 48.45	C1
MOTA	2302		ILE	68	22.032	11.086	5.836	1.00 47.51	Cl
MOTA	2303	C	ILE	68	17.841	9.846	5.458	1.00 51.41	Cl
ATOM	2304	0	ILE	68	16.796	10.053	6.088	1.00 52.16	Cl
MOTA	2305	N	GLY	69	17.970	8.885	4.550	1.00 51.45	C1
MOTA	2306	CA	GLY	69	16.876	7.988	4.246	1.00 51.52	Cl
MOTA	2307	C	GLY	69	17.034	7.313	2.887	1.00 51.85	Cl
MOTA	2308	0	GLY	69	18.136	6.957	2.487	1.00 51.77	Cl
MOTA	2309	N	ALA	70	15.921	7.156	2.174	1.00 52.21	Cl
MOTA	2310	CA	ALA	70	15.907	6.512	0.872	1.00 52.38	Cl
MOTA	2311	CB	ALA	70	14.459	6.445	0.355	1.00 52.35	Cl
MOTA	2312	C	ALA	70	16.806	7.202	-0.156	1.00 52.84	Cl
MOTA	2313	0	ALA	70	17.647	6.563	-0.801	1.00 53.61	Cl
ATOM	2314	N	GLN	71	16.641	8.512	-0.300	1.00 52.78	Cl
MOTA	2315	CA	GLN	71	17.411	9.283	-1.272	1.00 52.79	. C1
MOTA	2316	CB	GLN	71	16.740	10.668	-1.450	1.00 53.71	Cl
MOTA	2317	CG	GLN	71	15.196	10.560	-1.487	1.00 54.85	C1.
ATOM	2318	В	GLN	71	14.471	11.904	-1.600	1.00 56.44	Cl
MOTA	2319		GLN	71	14.610	12.623	-2.623	1.00 56.95	Cl
ATOM	2320		GLN	71	13.689	12.262	-0.548	1.00 55.97	Cl
ATOM	2321	C	GLN	71	18.910	9.433	-0.974	1.00 51.80	Cl
MOTA	2322	0	GLN	71	19.691	9.693	-1.900	1.00 52.03	Cl
MOTA	2323	N	LEU	72	19.316	9.270	0.293	1.00 50.94	Cl
ATOM	2324	CA	LEU	72	20.741	9.423	0.689	1.00 49.64	Cl
MOTA	2325	CB	LEU	72	21.143	10.909	0.726	1.00 48.92	Cl
ATOM	2326	CG	LEU	72	22.541	11.397	1.155	1.00 47.24	Cl
ATOM	2327		LEU	72	23.540	11.368	-0.012	1.00 45.52	Cl
ATOM	2328		LEU	72	22.382	12.825	1.665	1.00 47.11	Cl
ATOM	2329	C	LEU	72	21.119	8.815	2.029	1.00 49.40	Cl

MOTA	2330	0	LEU	72	20.426	9.008	3.057	1.00 48.89	Cl
MOTA	2331	N	SER	73	22.256	8.120	2.004	1.00 48.75	Cl
MOTA	2332	CA	SER	73	22.801	7.450	3.173	1.00 48.80	Cl
MOTA	2333	CB	SER	73	23.008	5.952	2.845	1.00 49.54	Cl
MOTA	2334	OG	SER	73	23.967	5.331	3.711	1.00 50.91	Cl
ATOM	2335	C	SER	73	24.136		3.677	1.00 48.34	Cl
ATOM	2336	0	SER	73	24.914	8.609	2.915	1.00 48.05	Cl
MOTA	2337	N	PHE	74	24.390	7.813	4.967	1.00 47.81	Cl
ATOM	2338	CA	PHE	74	25.625	8.201	5.636	1.00 47.50	Cl
ATOM	2339	CB	PHE	74	25.664	7.615	7.041	1.00 47.20	Cl
ATOM	2340	CG	PHE	74	24.715	8.259	8.002	1.00 47.29	Cl
ATOM	2341		PHE	74	24.850	9.620		1.00 46.98	C1
ATOM	2342		PHE	74	23.726	7.508	8.627	1.00 46.60	C1
ATOM ATOM	2343 2344		PHE PHE	74	24.026	10.216	9.278	1.00 45.88	Cl
ATOM	2344	CZ	PHE	74 74	22.893	8.104	9.572	1.00 46.36	Cl
ATOM	2346	C	PHE	74	23.051 26.798	9.465	9.895	1.00 45.98	Cl
ATOM	2347	0	PHE	74	27.849	7.608 8.235	4.893	1.00 48.02 1.00 47.41	Cl
ATOM	2348	И	GLN	75	26.615	6.364	4.714	1.00 47.41	Cl
ATOM	2349	CA	GLN	75 75	27.666	5.644	3.785	1.00 48.84	C1 C1
ATOM	2350	СВ	GLN	75	27.278	4.168	3.684	1.00 49.32	Cl
ATOM	2351	CG	GLN	75	27.029	3.513	5.046	1.00 50.48	C1
ATOM	2352	CD	GLN	75	28.285	3.526	5.886	1.00 51.73	Cl
ATOM	2353		GLM	75	29.353	3.130	5.412	1.00 52.49	Cl
MOTA	2354	NE2		75	28.180	3.985	7.126	1.00 51.45	Cl
ATOM	2355	C	GLN	75	27.988	6.235	2.421	1.00 49.96	Cl
ATOM	2356	Ö	GLN	75	29.017	5.907	1.825	1.00 50.48	Cl
ATOM	2357	N	ASP	76	27.130	7.122	1.927	1.00 50.43	Cl
ATOM	2358	CA	ASP	76	27.365	7.761	0.619	1.00 50.67	Cl
ATOM	2359	СВ	ASP	76	26.054	8.166	-0.046	1.00 51.37	Cl
ATOM	2360	CG	ASP	76	25.287	6.997	-0.560	1.00 52.52	Cl
ATOM	2361		ASP	76	25.891	6.193	-1.301	1.00 52.95	Cl
ATOM	2362	OD2	ASP	76	24.086	6.888	-0.224	1.00 53.95	C1
MOTA	2363	C	ASP	76	28.184	9.026	0.765	1.00 50.43	C1
ATOM	2364	0	ASP	76	28.669	9.579	-0.223	1.00 51.13	C1
ATOM	2365	N	ILE	77	28.317	9.481	2.006	1.00 49.70	C1
MOTA	2366	CA	ILE	77	29.031	10.701	2.309	1.00 48.67	Cl
MOTA	2367	CB	ILE	77	28.211	11.559	3.253	1.00 47.95 .	Cl
MOTA	2368	CG2	ILE	77	28.817	12.936	3.353	1.00 47.84	Cl
MOTA	2369	CG1	ILE	77	26.746	11.564	2.789	1.00 48.00	Cl
ATOM	2370	CD1	ILE	77	25.808	12.444	3.603	1.00 47.22	Cl
ATOM	2371	C	ILE	77	30,368	10.440	2.978	1.00 48.96	Cl
MOTA	2372	0	ILE	77	30.434	9.757	3.997	1.00 48.72	Cl
MOTA	2373	N	GLU	78	31.440	10.969	2.408	1.00 48.68	C1
MOTA	2374	CA	GLU	78	32.704	10.799	3.073	1.00 49.55	C1
MOTA	2375	CB	GLU	78 ·	33.621	9.823	2.333	1.00 51.11	Cl
MOTA	2376	CG	GLU	78	34.970	9.720	3.028	1.00 52.90	. C1
MOTA	2377	CD	GLU	78	35.794	8.537	2.593	1.00 54.48	C1
MOTA	2378		GLU	78	37.012	8.540	2.910	1.00 55.00	Cl
ATOM	2379	OE2		78	35.224	7.615	1.953	1.00 55.86	Cl
MOTA	2380	C	GLU	78	33.438	12.115	3.287	1.00 48.60	Cl
ATOM	2381	0	GLU	78	33.607	12.901	2.361	1.00 48.62	C1
MOTA	2382	N	ILE	79	33.877	12.325	4.526	1.00 47.38	C1
ATOM	2383	CA	ILE	79	34.619	13.513	4.920	1.00 45.83	Cl
ATOM	2384	CB	ILE	79	34.182	14.038	6.320	1.00 44.21	Cl
ATOM	2385		ILE	79 70	35.248	15.001	6.849	1.00 43.54	Cl
MOTA	2386	CG1	ILE	79	32.840	14.777	6.243	1.00 43.11	Cl

MOTA	2387	CD	1 ILE	79	31.649	13.923	6.253	1 00 40 00	
ATOM	2388	_	ILE	79	36.115		5.008		Cl
ATOM	2389		ILE	79	36.524		5.704		C1
ATOM	2390		ARG	80	36.931		4.308		C1
ATOM	2391			80	38.381		4.363		C1
ATOM	2392			80	38.918		3.023		C1
ATOM	2393			80	38.470	11.879	2.682		C1
ATOM	2394			80	39.177		1.415		C1 C1
ATOM ATOM	2395		ARG	80	38.299	10.415	0.673		C1
ATOM	2396 2397		ARG	80	38.580	9.892	-0.520		Cl
ATOM	2397		1 ARG	80 -	37.705		-1.102	1.00 62.00	Cl
ATOM	2398			80	39.732		-1.133		Ci
ATOM	2400		ARG	80	38.998	15.154	4.702	1.00 47.04	Cl
ATOM	2401	N O	ARG	80	38.302		4.696	1.00 46.98	Cl
ATOM	2402	CA	LYS LYS	81	40.285		5.021	1.00 46.29	C1
ATOM	2403	CB	LYS	81	40.969	· -	5.316	1.00 46.35	Cl
ATOM	2404	CG	LYS	81 81	41.221	16.598	6.822	1.00 46.29	Cl
ATOM	2405	CD	LYS	81	40.018	17.101	7.625	1.00 46.61	Cl
ATOM	2406	CE	LYS	81	40.403	17.303	9.096	1.00 46.26	Cl
ATOM	2407	NZ	LYS	81	39.246	17.784	9.958	1.00 46.08	Cl
ATOM	2408	c	LYS	81	39.660	17.771	11.416	1.00 46.72	Cl
ATOM	2409	ō	LYS	81	42.312	16.573	4.592	1.00 46.05	Cl
ATOM	2410	N	ASP	82	42.576	15.630	4.573	1.00 45.90	Cl
ATOM	2411	CA	ASP	82	43.872	17.753	4.017	1.00 45.41	Cl
MOTA	2412	CB	ASP	82	43.782	17.963 19.022	3.356	1.00 45.00	C1
ATOM	2413	CG	ASP	82	43.524	20.455	2.231	1.00 43.78	Cl
MOTA	2414	OD1	ASP	82	43.895	20.840	2.742 3.884	1.00 43.90	C1
ATOM	2415	OD2		82	42.962	21.224	1.935	1.00 42.17	C1
MOTA	2416	C	ASP	82	44.983	18.330	4.374	1.00 43.52 1.00 44.67	C1
ATOM	2417	ο.	ASP	- 82	44.750	18.333	5.598	1.00 43.85	Cl
ATOM	2418	N	GLN	83	46.172	18.643	3.855	1.00 44.78	C1
ATOM	2419	CA	GLN	83	47.359	18.986	4.671	1.00 45.33	C1
ATOM	2420	CB	GLN	83	48.573	19.193	3.759	1.00 45.91	C1
MOTA	2421	CG	GLN	83	49.490	18.021	3.641	1.00 46.80	C1 C1
ATOM	2422	CD	GLN	83	48.747	16.733	3.714	1.00 48.38	C1
ATOM	2423		GLN	83	48.676	16.113	4.793	1.00 49.41	- C1
ATOM	2424	NE2		83	48.152	16.315	2.584	1.00 47.83	Cl
ATOM	2425	C	GLN	83	47.240	20.217	5.550	1.00 44.80	Cl
ATOM	2426	0	GLN	83	48.041	20.408	6.448	1.00 44.50	Cl
ATOM ATOM	2427	N	ASN	84	46.254	21.060	5.250	1.00 44.80	Cl
ATOM	2428	CA	ASN	84	46.013	22.296	5.991	1.00 44.29	C1
ATOM	2429 2430	CB	ASN	84	45.585	23.412	5.032	1.00 44.06	Cl
ATOM	2430	CG	asn Asn	84	46.747	24.027	4.289	1.00 44.62	Cl
ATOM	2432		ASN	84	46.624	24.390	3.111	1.00 44.59	C1
ATOM	2433	C	asn	84	47.874	24.174	4.969	1.00 43.72	C1
ATOM	2434	Õ	asn	84	44.898	22.048	6.995	1.00 43.71	Cl
ATOM	2435	и	GLY	84	44.510	22.956	7.742	1.00 43.04	C1
ATOM	2436	CA	GLY	85 85	44.389	20.814	6.978	1.00 43.44	Cl
ATOM	2437	C	GLY	85 85	43.311	20.406	7.867	1.00 42.84	C1
ATOM	2438	ō	GLY	85	41.948	20.869	7.404	1.00 42.40	C1
ATOM	2439	N	LYS	86	41.025	20.958	8.209	1.00 43.31	Cl
ATOM	2440		LYS	86	41.808	21.182	6.123	1.00 41.80	Cl
ATOM	2441		LYS	86	40.519	21.633	5.609	1.00 42.19	Cl
ATOM	2442		LYS	86	40.674	22.537	4.380	1.00 41.23	Cl
ATOM	2443		LYS	86	39.386	23.217	3.952	1.00 41.66	Cl
					39.513	23.859	2.566	1.00 42.36	Cl

MOTA	2444	CE	LYS	86	38.541	23.239	1.522	1.00 43.64	· Cl
MOTA	2445	NZ	LYS	86	38.374	24.125	0.287	1.00 44.71	Cl
ATOM	2446	C	LYS	86	39.738	20.396	5.231	1.00 42.58	Cl
MOTA	2447	0	LYS	86	40.219	19.540	4.495	1.00 42.76	Ci
ATOM	2448	N	PRO	87 ·	38.516	20.282	5.743	1.00 43.20	Cl
ATOM	2449	CD	PRO	87	37.872	-21.103	6.786	1.00 43.03	Cl
ATOM	2450	CA	PRO	87	37.715	19.113	5.422	1.00 43.26	Cl
ATOM	2451	CB	.PRO	87	36.722	19.061	6.555	1.00 43.23	Cl
ATOM	2452	CG	PRO	87	36.488	20.526	6.838	1.00 43.31	Cl
ATOM	2453	C	PRO	87	37.056	19.322	4.111	1.00 43.97	Cl
ATOM	2454	0	PRO	87	36.907	20.464	3.651	1.00 43.98	Ci
ATOM	2455	N	TYR	88	36.711	18.214	3.484	1.00 44.08	Cl
ATOM	2456	CA	TYR	88	36.033	18.278	2.230	1.00 45.68	Cl
ATOM	2457	CB	TYR	88	37.015	18.472	1.034	1.00 47.43	Cl
ATOM	2458	CG		· 88	38.189	17.526	0.886	1.00 49.08	C1
ATOM	2459	CD1	TYR	88	38.194	16.521	-0.107	1.00 50.60	Cl
ATOM	2460	CE1	TYR	88	39.336	15.701	-0.334	1.00 50.63	C1
ATOM	2461	CD2	TYR	88	39.341	17.681	1.660	1.00 49.84	Cl
ATOM	2462	CE2	TYR	88	40.476	16.862	1.450	1.00 50.93	Cl
ATOM	2463	CZ	TYR	88	40.464	15.885	0.451	1.00 50.33	
ATOM	2464	ОН	TYR	88	41.590	15.120	0.244	1.00 51.22	Cl
ATOM	2465	C	TYR	88	35.215	17.026	2.127	1.00 32.41	Cl
ATOM	2466	ō	TYR	88	35.549	16.010			Cl
ATOM	2467	N	ILE	89	34.103	17.124	2.721	1.00 45.65	Cl
ATOM	2468	CA	ILE	89	33.221	15.998	1.419	1.00 47.63 1.00 50.50	Cl
ATOM	2469	CB	ILE	89	31.754		1.275		Cl
ATOM	2470	CG2	ILE	89	30.825	16.402	1.541	1.00 49.66	C1
ATOM	2471	CG1	ILE	89		15.216	1.273	1.00 48.82	Cl
ATOM	2472	CD1	ILE	89	31.627	16.905	2.972	1.00 49.02	Cl
ATOM	2473	CDI	ILE	89	30.227	17.264	3.369	1.00 48.76	C1
ATOM	2474	o	ILE	89	33.276	15.340	-0.095	1.00 52.86	Cl
ATOM	2475	И	ILE	90	33.365	16.004	-1.123	1.00 53.08	Cl
ATOM	2476	CA	ILE		33.229	14.021	-0.093	1.00 55.54	Cl
ATOM	2477	CB	ILE	90	33.199	13.295	-1.334	1.00 58.03	Cl
ATOM				90	34.292	12.261	-1.404	1.00 57.72	Cl
	2478	CG2	ILE	90	34.455	11.818	-2.851	1.00 57.78	Cl
ATOM ATOM	2479	CG1	ILE	90	35.618	12.870	-0.947	1.00 58.26	Cl
	2480	CD1		90	36.152	13.997	-1.880	1.00 58.15	C1
ATOM	2481	C	ILE	90	31.843	12.610	-1.309	1.00 59.92	Cl
ATOM	2482	0	ILE	90	31.460	12.005	-0.309	1.00 60.54	Cl
ATOM	2483	И	CYS	91	31.085	12.767	-2.375	1.00 62.06	Cl
ATOM	2484	CA	CYS	91	29.789	12.135	-2.442	1.00 65.02	Cl
ATOM	2485	CB	CYS	91	28.729	12.879	-1.636	1.00 64.53	C1
ATOM	2486	SG	CYS	91	27.007	12.228	-1.893	1.00 65.15	C1
MOTA	2487	C	CYS	91	29.339	12.047	-3.872	1.00 67.19	Cl
MOTA	2488	0	CYS	91	28.809	13.012	-4.450	1.00 67.57	C1
ATOM	2489	N	THR	92	29.597	10.892	-4.463	1.00 69.14	Cl
ATOM	2490	CA	THR	92	29.160	10.677	-5.812	1.00 71.19	C1
ATOM	2491	CB	THR	92	29.946	9.525	-6.462	1.00 71.08	Cl
ATOM	2492	OG1		92	29.521	8.282	-5.894	1.00 71.32	Cl
ATOM	2493	CG2		92	31.453	9.721	-6.224	1.00 70.41	Cl
ATOM	2494	C	THR	92	27.722	10.304	-5.485	1.00 72.70	Cl
ATOM	2495	0	THR	92	27.446	9.328	-4.768	1.00 73.09	Cl
ATOM	2496	N	LYS	93	26.842	11.183	-5.932	1.00 74.04	Cl
ATOM	2497	CA	LYS	93	25.406	11.099	-5.769	1.00 75.40	Cl
ATOM	2498	CB	LYS	93	24.979	11.225	-4.318	1.00 75.38	Cl
ATOM	2499	CG	LYS	93	24.537	9.897	-3.689	1.00 75.40	Cl
ATOM	2500	CD	LYS	93	23.074	9.583	-3.977	1.00 75.01	Cl

MOTA	2501	. CE	LYS	93	22.649	8.273	-2 229		
ATOM	2502	. NZ	LYS	93	21.168	8.059			Cl
MOTA	2503	C	LYS	93	25.077	12.351			Cl
ATOM	2504	0	LYS	93	24.070				Cl
ATOM	2505	N	LEU	94	26.036	12.641			Cl
ATOM	2506	CA	LEU	94	26.063	.13.734	-8.361		' C1
ATOM	2507			94	24.692	14.417	-8.499		C1
ATOM	2508			94	24.161	14.260	-9.936		Cl
ATOM	2509		1 LEU	94	25.097		-10.908		Cl
ATOM	2510		2 LEU	94	24.057		-10.301	1.00 79.47	C1
ATOM	2511		LEU	94	27.140	14.797	-8.236	1.00 78.47	C1
ATOM	2512		LEU	94	27.454	15.308	-7.149	1.00 79.19	C1 C1
ATOM ATOM	2513	N	SER	95	27.732	15.068	-9.394	1.00 77.80	Cl
ATOM	2514	CA	SER	95	28.721	16.095	-9.540	1.00 77.11	Cl
ATOM	2515		SER	95	29.745	15.726	-10.618	1.00 77.27	Cl
ATOM	2516 2517	OG	SER	95	31.066		-10.095	1.00 77.30	Cl
ATOM	2517	C	SER	95	27.801	17.221	-10.024	1.00 76.59	Cl
ATOM	2519	и	SER	95	26.679	17.383	-9.499	1.00 76.68	Cl
ATOM	2520	CA	ALA ALA	96	28.234		-11.053	1.00 75.05	Cl
ATOM	2521	CB	ALA	96	27.455		-11.550	1.00 73.08	C1
ATOM	2522	C	ALA	96 96	26.078	18.610	-12.037	1.00 73.32	Cl
ATOM .	2523	Ö	ALA	96 96	27.318	20.027	-10.330	1.00 71.45	Cl
ATOM	2524	N	ALA	97	26.471		-10.324	1.00 72.20	Cl
ATOM	2525	CA	ALA	97	28.182	19.779	-9.323	1.00 68.24	Cl
ATOM	2526	CB	ALA	97 ·	28.200	20.528	-8.066	1.00 64.53	Cl
MOTA	2527	C	ALA	97	26.974 29.461	20.148	-7.236	1.00 64.01	Cl
ATOM	2528	ō	ALA	97	29.994	20.384	-7.202	1.00 61.89	Cl
ATOM	2529	N	ALA	98	29,925	19.301 21.507	-7.005	1.00 61.20	C1
ATOM	2530	CA	ALA	98	31.081	21.507	-6.678	1.00 59.31	Cl
ATOM	2531	CB	ALA	98	31.933	22.771	-5.794 -6.084	1.00 56.05	Cl
ATOM	2532	C	ALA	98	30.465	21.618	-4.400	1.00 55.80	Cl
ATOM	2533	0	ALA	98	29.341	22.108	-4.253	1.00 53.71 1.00 52.98	Cl
MOTA	2534	N	VAL	99	31.195	21.146	-3.391	1.00 52.98	Cl
ATOM	2535	CA	VAL	99	30.700	21.160	-2.017	1.00 47.45	Cl
ATOM	2536	CB	VAL	99	30.513	19.706	-1.466	1.00 47.53	Cl
ATOM	2537		VAL	99	29.641	19.692	-0.210	1.00 47.19	C1 C1
ATOM	2538	CG2		99	29.933	18.819	-2.529	1.00 46.70	Cl
ATOM	2539	C	VAL	99	31.693	21.864	-1.107	1.00 45.49	Cl
ATOM	2540	0	VAL	99	32.904	21.743	-1.284	1.00 44.20	Cl
ATOM	2541	N	HIS	100	31.168	22.613	-0.141	1.00 43.53	Ci
ATOM	2542	CA	HIS	100	32.008	23.282	0.851	1.00 41.02	Cl
ATOM	2543	СВ	HIS	100	31.926	24.804	0.764	1.00 42.26	Cl
ATOM	2544	CG	HIS	100	32.416	25.362	-0.526	1.00 43.68	C1
ATOM	2545		HIS	100	33.671	25.597	-0.971	1.00 44.46	Cl
ATOM	2546 2547		HIS	100	31.563	25.698	-1.559	1.00 44.71	Cl
ATOM	2548		HIS	100	32.278	26.112	-2.593	1.00 45.41	Cl
ATOM	2549	C C	HIS	. 100	33.558	26.060	-2.263	1.00 46.23	Cl
ATOM	2550	0	HIS	100	31.487	22.853	2.227	1.00 39.34	C1
ATOM	2551	И	HIS VAL	100	30.277	22.772	2.477	1.00 37.89	Cl
ATOM	2552	CA	VAL	101	32.423	22.599	3.124	1.00 37.22	Cl
ATOM	2553	CB	VAL	101	32.081	22.169	4.463	1.00 35.34	Cl
ATOM	2554		VAL	101 101	32.273	20.644	4.612	1.00 34.50	Cl
ATOM	2555		VAL	101	33.691	20.325	4.422	1.00 34.09	Cl
ATOM	2556	C	VAL	101	31.847	20.179	5.973	1.00 33.26	Cl
ATOM	2557	o	VAL	101	32.994 34.133	22.813	5.450	1.00 33.51	C1
*		-		~~ <b>~</b>	34.133	23.106	5.139	1.00 33.22	Cl

MOTA	2558	N	SER	102	32.488	23.006	6.655	1.00 32.89	Cl
ATOM	2559	CA	SER	102	33.282	23.547	7.750	1.00 31.81	Cl
ATOM	2560 [°]	CB	SER	102	33.077	25.044	7.919	1.00 32.65	Cl
MOTA	2561	OG	SER	102	34.008	25.557	8.884	1.00 32.76	Cl
ATOM	2562	C	SER	102	32.786	22.837	8.993	1.00 32.14	Cl
ATOM	2563	0	SER	102	31.595	.22.633	9.145	1.00 31.51	Cl
MOTA	2564	N	ILE	103	33.708	22.478	9.887	1.00 32.69	Cl
MOTA	2565	CA	ILE	103	33.383	21.774	11.127	1.00 32.36	Cl
ATOM	2566	CB	ILE	103	33.837	20.322	11.005	1.00 32.02	Cl
ATOM	2567	CG2	ILE	103	33.518	19.539	12.311	1.00 30.43	Cl
ATOM	2568	CG1	ILE	103	33.186	19.731	9.757	1.00 29.77	Cl
MOTA	2569	CD1	ILE	103	33.800	18.433	9.328	1.00 31.21	Cl
ATOM	2570	C	ILE	103	34.097	22.437	12.308	1.00 33.22	Cl
MOTA	2571	0	ILE	103	35.255	22.798	12.203	1.00 33.37	Cl
ATOM	2572	N	THR	104	33.402	22.589	13.425	1.00 33.89	Cl
ATOM	2573	CA	THR	104	33.952	23.222	14.592	1.00 34.64	Cl
ATOM	2574	CB	THR	104	33.523	24.685	14.643	1.00 35.31	Cl
ATOM	2575		THR	104	34.073	25.322	15.805	1.00 36.64	C1
ATOM	2576	CG2	THR	104	32.025	24.774	14.697	1.00 35.83	Cl
ATOM	2577	C	THR	104	33.484	22.531	15.865	1.00 34.82	C1
ATOM	2578	0	THR	104	32.392	21.970	15.930	1.00 35.84	Cl
ATOM	2579	N	HIS	105	34.305	22.606	16.894	1.00 34.86	C1
ATOM	2580	CA	HIS	105	33.998	21.958	18.158	1.00 35.82	C1
ATOM	2581	CB	HIS	105	34.956	20.792	18.452	1.00 34.73	Cl
MOTA	2582		HIS	105	34.945	19.743	17.398	1.00 34.83	C1
MOTA	2583		HIS	105	35.695	19.603	16.277	1.00 33.18	C1
MOTA	2584		HIS	105	34.027	18.711	17.391	1.00 34.52	C1
MOTA	2585		HIS	105	34.213	17.979	16.306	1.00 35.06	Cl
ATOM	2586		HIS	105	35.217	18.497	15.615	1.00 34.71	Cl
ATOM	2587	C	HIS	105	34.158	22.908	19.280	1.00 35.73	Cl
MOTA	2588	0	HIS	105	34.987	23.794	19.246	1.00 33.92	Cl
ATOM	2589	N	THR	106	33,390	22.611	.20.299	1.00 36.77	Cl
ATOM	2590	CA	THR	196	33.355	23.348	21.524	1.00 40.09	Cl
ATOM	2591	CB	THR	106	32.082	24.176	21.508	1.00 40.79	C1
MOTA	2592		THR	106	32.299	25.425	22.156	1.00 43.54	C1
MOTA	2593	CG2	THR	106	30.992	23.443	22.156	1.00 42.68	Cl
MOTA	2594	C	THR	106	33.358	22.224	22.608	1.00 41.25	C1
ATOM	2595	0	THR	106	33.425	21.023	22.265	1.00 41.69	C1
ATOM	2596		ALA	107	33.304	22.574	23.894	1.00 42.12	Cl
ATOM	2597	CA	ALA	107	33.328	21.526	24.912	1.00 42.01	Cl
MOTA	2598	.CB	ALA	107	33.557				C1
ATOM	2599	C	ALA	107	32.003	20.768	24.874	1.00 42.28	Cl
ATOM	2600	0	ALA	107	31.972	19.556	25.012	1.00 42.24	Cl
ATOM	2601	N	GLU	108	30.907	21.482	24.667	1.00 42.09	Cl
ATOM	2602	CA	GLU	108	29.604	20.842	24.612	1.00 41.95	Cl
ATOM	2603	СВ	GLU	108	28.538	21.761	25.204	1.00 44.03	Cl
ATOM	2604	CG	GLU	108	28.709	22.065	26.689	1.00 48.57	Cl
ATOM	2605 2606	CD	GLU	108	27.406	21.949	27.467	1.00 50.64	Cl
ATOM ATOM	2607		GLU GLU	108	27.493	21.903	28.720	1.00 52.40	Cl
ATOM	2608	C		108	26.306	21.905	26.838	1.00 51.79	Cl
ATOM	2609	0	GLU	108	29.115	20.438	23.226	1.00 40.76	Cl
ATOM	2610	И	GLU	108	28.259	19.572	23.112	1.00 40.77	C1
ATOM	2611	CA	TYR TYR	109	29.660	21.031	22.173	1.00 38.80	C1 C1
ATOM	2612	CB	TYR	109 109	29.118	20.760	20.851	1.00 36.61	Cl
ATOM	2613	CG	TYR		28.242	21.950	20.431	1.00 37.49	
ATOM	2614 2614		TYR	109	27.115	22.270	21.350	1.00 39.09	C1 C1
MIUM	7014	TU1	TIK	109	25.930	21.532	21.323	1.00 39.55	CI

ATOM	2615		TYR	109	24.865	21.844	22.169	1.00 40.62	Cl
MOTA	2616	CD2	TYR	109	27.215	23.324	22.242	1.00 40.44	Cl
ATOM	2617	CE2	TYR	109	26.166	23.652	23.088	1.00 40.89	Cl
MOTA	2618	CZ	TYR	109	24.997	22.913	23.050	1.00 41.89	Cl
ATOM	2619	OH	TYR	109	23.958	23.262	23.905	1.00 44.16	Cl
MOTA	2620	C	TYR	109	30.033	.20.503	19.682	1.00 34.46	Cl
MOTA	2621	0	TYR	109	31.192	20.822	19.708	1.00 33.77	C1
MOTA	2622	N	ALA	110	29.456	19.905	18.642	1.00 32.46	Cl
MOTA	2623	CA	ALA	110	30.128	19.719	17.376	1.00 30.31	Cl
ATOM	2624	CB	ALA	110	30.296	18.263	17.029	1.00 30.67	Cl
MOTA	2625	C	ALA	110	29.083	20.384	16.474	1.00 29.65	Cl
MOTA	2626	0	ALA	110	27.879	20.217	16.667	1.00 29.10	Cl
MOTA	2627	N	ALA	111	29.540	21.163	15.512	1.00 28.10	Cl
MOTA	2628	CA	ALA	111	28.639	21.853	14.609	1.00 26.34	Cl
MOTA	2629	CB	ALA	111	28.478	23.284	15.055	1.00 26.00	Cl
ATOM	2630	С	ALA	111	29.257	21.788	13.211	1.00 25.08	Cl
ATOM	2631	0	ALA	111	30.464	21.589	13.065	1.00 24.72	Cl
ATOM	2632	N	ALA	112	28.441	21.946	12.185	1.00 24.25	Cl
ATOM	2633	CA	ALA	112	28.974	21.875	10.820	1.00 24.68	Cl
ATOM	2634	CB	ALA	112	29.189	20.419	10.395	1.00 21.72	Cl
ATOM	2635	C	ALA	112	28.044	22.566	9.838	1.00 25.11	Cl
ATOM	2636	0	ALA	112	26.848	22.689	10.058	1.00 25.98	Cl
ATOM	2637	N	GLN	113	28.597	23.045	8.753	1.00 26.72	C1
MOTA	2638	CA	GLN	113	27.749	23.684	7.781	1.00 28.89	
ATOM	2639	СВ	GLN	113	27.860	25.200	7.850	1.00 28.89	Cl
ATOM	2640	CG	GLN	113	29.227	25.758	7.596	1.00 29.76	Cl
ATOM	2641	CD	GLN	113	29.173	27.298	7.531		C1
ATOM	2642		GLN	113	28.130	27.865	7.233	1.00 33.88	Cl
ATOM	2643		GLN	113	30.276	27.865	7.797	1.00 36.87	Cl
ATOM	2644	C	GLN	113	28.204	23.199	6.447	1.00 34.55	Cl
ATOM	2645	0	GLN	113	29.369			1.00 28.78	Cl
ATOM	2646	N	VAL	114		22.848	6.248	1.00 27.81	Cl
ATOM	2647	CA	VAL	114	27.259 27.572	23.153	5.535	1.00 29.54	Cl
ATOM	2648	CB	VAL	114		22.712	4.204	1.00 29.98	Cl
ATOM	2649		VAL	114	27.078 27.057	21.237	3.967	1.00 30.15	Cl
ATOM	2650		VAL	114		20.936	2.442	1.00 29.05	Cl
ATOM	2651	C	VAL	114	27.992	20.250	4.686	1.00 28.96	Cl
ATOM	2652	0	VAL	114	26.876	23.603	3.177	1.00 29.81	Cl
ATOM	2653	И	VAL		25.766	24.049	3.378	1.00 29.57	Cl
ATOM	2654	CA	VAL	115	27.560	23.858	2.086	1.00 30.84	Cl
ATOM	2655	CB	VAL	115	26.971	24.574	0.986	1.00 32.60	C1
ATOM	2656			115	27.618	25.931	0.695	1.00 32.10	Cl
ATOM	2657	CGI	VAL VAL	115	27.048	26.474	-0.664	1.00 32.24	C1
ATOM				115	27.301	26.925	1.848	1.00 32.42	.C1
	2658	C	VAL	115	27.195	23.691	-0.241	1.00 34.20	C1
ATOM	2659	0	VAL	115	28.337	23.287	-0.547	1.00 34.19	Cl
ATOM	2660	N	ILE	116	26.108	23.355	-0.916	1.00 35.87	Cl
MOTA	2661	CA	ILE	116	26.244	22.600	-2.154	1.00 38.89	Cl
ATOM	2662	CB	ILE	116	25.349	21.370	-2.186	1.00 38.31	Cl
MOTA	2663		ILE	116	25.267	20.863	-3.656	1.00 38.34	Cl
MOTA	2664		ILE	116	25.881	20.292	-1.237	1.00 36.78	Cl
MOTA	2665		ILE	116	24.830	19.301	-0.953	1.00 36.94	Cl
MOTA	2666	C	ILE	116	25.753	23.555	-3.263	1.00 40.86	Cl
ATOM	2667	0	ILE	116	24.616	24.034	-3.217	1.00 40.74	Cl
MOTA	2668	N	GLU	117	26.584	23.844	-4.243	1.00 43.03	Cl
ATOM	2669	CA	GLU	117	26.142	24.728	-5.316	1.00 45.86	Cl
ATOM	2670	CB	GLU	117	26.865	26.075	-5.184	1.00 47.20	Cl
MOTA	2671	CG	GLU	117	28.404	25.981	-5.155	1.00 48.86	Cl

MOTA	2672		GLU	117	29.015	27.249	-4.545	1 00 40 00	
MOTA	2673		L GLU	117	28.231	28.110	-4.057	1.00 49.86	Cl
ATOM	2674	OE:	2 GLU	117	30.261	27.380	-4.527	1.00 51.10 1.00 50.18	Cl
ATOM	2675		GLU	117	26.395	24.073	-6.677	1.00 46.30	Cl
ATOM	2676	0	GLU	117	27.005	23.029	-6.745	1.00 45.75	Cl
MOTA	2677	N	ALA	118	25.930	24.667	-7.772	1.00 45.75	Cl
MOTA	2678	CA	ALA	118	26.148	24.030	-9.086	1.00 48.77	Cl
ATOM	2679	CB	ALA	118	24.913	24.136	-9.897	1.00 50.60	Cl
ATOM	2680	C	ALA	118	27.371	24.456	-9.924	1.00 50.50	Cl
ATOM	2681	OTI	LALA	118	28.273	25.169	-9.411	1.00 53.16	Cl
ATOM	2682	OT2	ALA	118	27.454		-11.108	1.00 54.02	Cl
ATOM	2683	N	SER	0	68.967	23.776	26.894	1.00 20.00	C1
ATOM	2684	CA	SER	0	68.672	23.405	28.273	1.00 20.00	AP1
ATOM	2685	C	SER	0	68.067	22.002	28.361	1.00 20.00	AP1
ATOM	2686	0	SER	· 0	68.040	21.159	27.474	1.00 20.00	AP1
ATOM	2687	CB	SER	0	68.207	24.675	28.953	1.00 20.00	AP1
MOTA	2688	OG	SER	0	69.266	25.630	29.017	1.00 20.00	AP1
ATOM	2689	CB	ALA	1	68.176	19.343	30.518	1.00 84.05	AP1 AP1
ATOM	2690	C	ALA	1	66.353	20.967	31.144	1.00 83.83	AP1
ATOM	2691	0	ALA	1	65.915	20.207	32.017	1.00 83.53	AP1
ATOM	2692	N	ALA	1	68.040	21.577	29.427	1.00 84.15	AP1
ATOM	2693	CA	ALA	1	67.243	20.455	30.009	1.00 84.11	AP1
ATOM	2694	N	ASP	2	66.766	22.112	31.200	1.00 83.55	AP1
ATOM	2695	CA	ASP	2	66.164	23.057	32.134	1.00 83.11	API
ATOM	2696	CB	ASP	2	67.112	24.243	32.351	1.00 83.20	AP1
ATOM	2697	CG	ASP	2	66.448	25.416	33.064	1.00 83.58	AP1
ATOM	2698		ASP	2	65.906	25.229	34.181	1.00 83.39	AP1
ATOM	2699	OD2		2	66.481	26.536	32.505	1.00 83.39	AP1
ATOM	2700	C	ASP	2	64.857	23.534	31.486	1.00 82.74	AP1
ATOM	2701	0	ASP	2	63.759	23.407	32.062	1.00 82.60	AP1
ATOM	2702	N	THR	3	64.988	24.067	30.273	1.00 81.72	AP1
ATOM	2703	CA	THR	3	63.836	24.561	29.539	1.00 80.65	AP1
ATOM	2704	CB	THR	. 3	64.230	25.062	28.148	1.00 80.87	AP1
ATOM ATOM	2705	OG1		3	64.460	23.941	27.283	1.00 81.31	AP1
ATOM	2706	CG2		3	65.495	25.900	28.237	1.00 80.59	AP1
ATOM	2707	C	THR	3	62.793	23.467	29.379	1.00 79.71	AP1
ATOM	2708	0	THR	3	61.605	23.759	29.317	1.00 79.30	AP1
ATOM	2709 2710	И	LEU	4	63.222	22.208	29.321	1.00 78.77	AP1
ATOM	2711	CA	LEU	4	62.251	21.132	29.156	1.00 78.22	AP1
ATOM	2711	CB CG	LEU	4	62.923	19.801	28.851	1.00 77.88	AP1
ATOM	2713		LEU	4	61.828	18.727	28.731	1.00 77.68	AP1
ATOM	2714		TEO	4	60.998	19.049	27.513	1.00 77.33	AP1
ATOM	2715	C	LEU	4	62.403	17.321	28.629	1.00 77.20	.AP1
ATOM	2716	Ö	LEU	4	61.331	20.916	30.346	1.00 78.03	AP1
ATOM	2717	И	ALA	4	60.136	20.639	30.178	1.00 77.68	AP1
ATOM	2718	CA	ALA	5	61.886	21.017	31.549	1.00 77.86	AP1
ATOM	2719	CB	ALA	5 5	61.085	20.810	32.747	1.00 77.70	AP1
ATOM	2720	C	ALA	5 5	62.017	20.587	33.932	1.00 78.40	AP1
ATOM	2721	ŏ	ALA	5	60.210	22.036	33.016	1.00 76.70	AP1
ATOM	2722	N	ARG	5 6	59.170	21.935	33.663	1.00 76.78	AP1
ATOM	2723	CA	ARG	6	60.632	23.190	32.514	1.00 75.48	AP1
ATOM	2724	СВ	ARG	6	59.832	24.397	32.661	1.00 74.44	AP1
ATOM	2725	CG	ARG	6	60.684	25.657	32.435	1.00 73.87	API
ATOM	2726	CD	ARG	6	61:473	26.120	33.670	1.00 73.31	AP1
ATOM	2727	NE	ARG	6	61.862	27.604	33.562	1.00 72.64	AP1
ATOM	2728	CZ	ARG	6	63.062 63.467	27.818	32.760	1.00 71.95	AP1
			AA.U	0	63.467	28.995	32.277	1.00 71.96	AP1

ATOM	2729		ARG	6	62.761	30.091	32.501	1.00 71.89	AP1
ATOM	2730	NH2	•	6	64.600	29.082	31.580	1.00 71.79	AP1
ATOM	2731	C	ARG	6	58.668	24.341	31.640	1.00 74.00	AP1
ATOM	2732	0	ARG	. <b>6</b>	57.600	24.921	31.880	1.00 74.10	AP1
ATOM	2733	N	VAL	7	58.882	23.635	30.519	1.00 72.52	AP1
ATOM	2734	CA	VAL	7	57.875	23.476	29.474	1.00 71.13	AP1
MOTA	2735	CB	VAL	7	58.528	23.150	28.081	1.00 70.76	AP1
MOTA	2736		VAL	7	57.473	22.682	27.082	1.00 69.94	AP1
ATOM	2737		VAL	7	59.224	24.379	27.531	1.00 70.02	AP1
ATOM	2738	C	VAL	7	56.880	22.362	29.842	1.00 70.99	AP1
ATOM	273,9	0	VAL	7	55.696	22.448	29.487	1.00 70.50	AP1
ATOM	2740	N	THR	8	57.343	21.315	30.532	1.00 70.31	AP1
ATOM	2741	CA	THR	8	56.437	20.228	30.924	1.00 69.89	AP1
ATOM	2742	CB	THR	8	57.207	19.000	31.436	1.00 70.39	AP1
ATOM	2743	0G1		8	58.176	18.604	30.455	1.00 71.27	AP1
ATOM	2744	CG2	THR	8	56.258	17.844	31.677	1.00 69.84	AP1
ATOM	2745	C	THR	8	55.496	20.740	32.028	1.00 69.21	AP1
ATOM	2746	0	THR	8	54.310	20.395	32.074	1.00 68.80	AP1
ATOM	2747	N	LYS	9	56.033	21.588	32.902	1.00 68.48	AP1
ATOM	2748	CA	LYS	9	55.243	22.183	33.976	1.00 67.55	AP1
ATOM	2749	CB	LYS	9	56.112	23.128	34.830	1.00 67.47	AP1
ATOM	2750	CG	LYS	9	55.319	23.931	35.878	1.00 68.25	AP1
ATOM	2751	CD	LYS	9	56.210	24.545	36.983	1.00 68.59	AP1
ATOM	2752	CE	LYS	9	55.418	25.517	37.861	1.00 68.36	AP1
ATOM	2753	NZ	LYS	9	54.123	24.921	38.323	1.00 68.66	AP1
ATOM	2754	C	LYS	9	54.103	22.966	33.329	1.00 66.72	AP1
ATOM	2755	0	LYS	9	52.939	22.773	33.659	1.00 66.23	AP1
ATOM	2756	N	ILE	10	54.468	23.841	32.395	1.00 66.18	AP1
ATOM	2757	CA	ILE	10	53.531	24.685	31.660	1.00 65.16	AP1
ATOM	2758	CB	ILE	10	54.291	25.543	30.628	1.00 65.28	AP1
ATOM ATOM	2759 2760	CG2 CG1	ILE	10	53.314	26.400	29.843	1.00 64.89	AP1
ATOM	2761	CD1	ILE	10	55.385	26.357	31.319	1.00 64.70	AP1
ATOM	2762	CDI		10.	55.044	27.783	31.590	1.00 65.19	AP1
ATOM	2762	0	ILE	10	52.441	23.904	30.912	1.00 64.66	AP1
ATOM	2764	И	ILE	10	51.287	24.308	30.896	1.00 64.47	AP1
ATOM	2765	CA	ILE	11	52.815	22.789	30.298	1.00 64.80	AP1
ATOM	2766	CB	ILE	11 11	51.889	21.963	29.521	1.00 65.01	AP1
ATOM	276 <b>7</b>	CG2	ILE	11	52.663 51.740	20.931	28.676	1.00 64.05	AP1
ATOM	2768	CG1		11	53.380	19.861	28.151	1.00 63.58	AP1
ATOM	2769	CD1		11	54.255	21.657 20.768	27.546 26.702	1.00 63.60 1.00 63.69	AP1
ATOM	2770	C	ILE	11	50.898				AP1
ATOM	2771	ō	ILE	11	49.685	21.251 21.345	30.405 30.202	1.00 66.13	AP1
ATOM	2772	N	VAL	12	51.428	20.538	31.395	1.00 65.72 1.00 67.85	AP1
ATOM	2773	CA	VAL	12	50.607	19.799	32.342	1.00 67.83	AP1
ATOM	2774	СВ	VAL	12	51.492	19.164	33.428	1.00 70.03	AP1 AP1
ATOM	2775		VAL	12	50.641	18.275	34.359	1.00 70.03	AP1
ATOM	2776		VAL	12	52.600	18.352	32.763	1.00 70.07	AP1
ATOM	2777	c	VAL	12	49.586	20.734	32.992	1.00 70.16	AP1
ATOM	2778	o	VAL	12	48.399	20.734	33.059	1.00 70.10	AP1
ATOM	2779	N	ASP	13	50.056	21.890	33.455	1.00 71.30	AP1
ATOM	2780	CA	ASP	13	49.181	22.866	34.085	1.00 72.67	AP1
ATOM	2781	СВ	ASP	13	49.946	24.159	34.443	1.00 72.07	AP1
ATOM	2782	CG	ASP	13	50.819	24.139	35.704	1.00 75.23	AP1
ATOM	2783	OD1		13	50.890	22.888	36.255	1.00 76.30	AP1
ATOM	2784	OD2		13	51.440	25.026	36.233	1.00 75.56	AP1
ATOM	2785	C	ASP	13	48.043	23.026	33.148	1.00 73.36	AP1
		-		~~	-0.043	43.41	33.140	2.00 /2.73	AF L

ATOM	2786	0	ASP	13	46.876	23.099	33.513	1 00 73 00	
ATOM	2787	N	ARG	14	48.398	23.620	31.931	1.00 73.09 1.00 73.49	AP1
ATOM	2788	CA	ARG	14	47.429	24.028	30.931	1.00 73.49	AP1
ATOM	2789	CB	ARG	14	48.141	24.758	29.814	1.00 73.31	AP1
ATOM	2790	CG	ARG	14	48.317	26.230	30.103	1.00 72.15	AP1 AP1
ATOM	2791	CD	ARG	14	47.264	27.078	29.385	1.00 70.90	AP1
ATOM	2792	NE	ARG	14	45.891	26.836	29.822	1.00 69.36	AP1
ATOM	2793	CZ	ARG	14	45.389	27.215	30.997	1.00 68.61	AP1
ATOM ATOM	2794	NH1		14	46.138	27.869	31.883	1.00 66.65	AP1
ATOM	2795	NH2		14	44.123	26.925	31.282	1.00 67.78	AP1
ATOM	279 <u>6</u> 2797	C	ARG	14	46.515	22.990	30.332	1.00 74.92	AP1
ATOM	2798	0	ARG	14	45.306	23.073	30.506	1.00 75.02	AP1
ATOM	2799	N	LEU	15	47.073	22.020	29.621	1.00 76.33	AP1
ATOM	2800	CA CB	LEU	15	46.254	20.988	28.980	1.00 77.82	AP1
ATOM	2801	CG	LEU	15	47.016	20.345	27.824	1.00 77.66	AP1
ATOM	2802		LEU LEU	15	47.558	21.237	26.711	1.00 77.79	AP1
ATOM	2803	CD2		15	48.132	20.348	25.613	1.00 77.88	AP1
ATOM	2804	C	LEU	15 15	46.455	22.123	26.158	1.00 77.57	AP1
ATOM	2805	Ö	LEU	15	45.773	19.869	29.899	1.00 79.19	AP1
ATOM	2806	N	GLY	16	46.049	19.859	31.110	1.00 79.28	AP1
ATOM	2807	CA	GLY	16	45.048 44.559	18.922	29.306	1.00 80.67	AP1
ATOM	2808	c c	GLY	16	45.767	17.789	30.071	1.00 82.85	AP1
ATOM	2809	Ö	GLY	16	45.767	17.061	30.637	1.00 84.35	AP1
ATOM	2810	N	VAL	17	46.607	16.974 16.578	31.855	1.00 84.11	AP1
ATOM	2811	CA	VAL	17	47.844	15.839	29.721	1.00 85.77	AP1
ATOM	2812	CB	VAL	17	49.070	16.474	30.001 29.301	1.00 87.22	AP1
ATOM	2813	CG1	VAL	17	48.710	16.869	27.893	1.00 87.11	AP1
ATOM	2814	CG2		17	49.584	17.663	30.103	1.00 87.54	AP1
ATOM	2815	C	VAL	17	48.289	15.579	31.429	1.00 87.15 1.00 88.17	AP1
ATOM	2816	0	VAL	17	48.000	16.321	32.373	1.00 88.17	AP1
ATOM	2817	N	ASP	18	49.056	14.505	31.537	1.00 89.54	AP1
ATOM	2818	CA	ASP	18	49.619	14.041	32.787	1.00 90.63	AP1 AP1
ATOM	2819	CB	ASP	18	49.655	12.509	32.759	1.00 91.40	AP1
ATOM	2820	CG	ASP	18	48.388	11.910	32.118	1.00 92.34	AP1
ATOM	2821		ASP	18	47.900	10.854	32.597	1.00 92.79	AP1
ATOM	2822		ASP	18	47.881	12.497	31.128	1.00 92.45	AP1
ATOM	2823	C	ASP	18	51.017	14.660	32.913	1.00 90.91	AP1
ATOM	2824	0	ASP	18	51.150	15.889	32.892	1.00 91.13	AP1
ATOM	2825	И	GLU	19	52.053	13.839	33.037	1.00 90.94	API
ATOM	2826	CA.	GLU	19	53.415	14.359	33.152	1.00 91.05	AP1
ATOM ATOM	2827	CB	GLU	19	53.824	14.457	34.628	1.00 91.09	AP1
ATOM	2828	CG	GLU	19	54.855	15.536	34.961	1.00 91.09	AP1
ATOM	2829	CD	GLU	19	56.226	15.279	34.357	1.00 91.30	AP1
ATOM	2830 2831	OE1		19	56.573	14.093	34.145	1.00 91.36	AP1
ATOM	283 <u>1</u> 2832	OE2		19	56.966	16.263	34.117	1.00 91.19	AP1
ATOM	2833		GLU	19	54.284	13.352	32.409	1.00 91.17	AP1
ATOM	2834	о И	GLU	19	55.365	13.670	31.906	1.00 91.03	AP1
ATOM	2835	CA	ALA ALA	20	53.787	12.122	32.352	1.00 91.10	AP1
ATOM	2836	CB	ALA	20	54.470	11.056	31.650	1.00 90.83	AP1
ATOM	2837	C	ALA	20	54.346	9.742	32.422	1.00 90.97	AP1
ATOM	2838	o	ALA	20 20	53.745	10.975	30.319	1.00 90.53	AP1
ATOM	2839	N	ASP	20 21	53.250	9.921	29.921	1.00 90.54	AP1
ATOM	2840		ASP	21	53.673 53.011	12.120	29.649	1.00 90.01	AP1
ATOM	2841		ASP	21	53.011	12.240	28.356	1.00 89.51	AP1
ATOM	2842		ASP	21	51.573 50.671	12.703	28.540	1.00 90.00	AP1
• •			·~ E	~ <u> </u>	50.671	11.607	29.018	1.00 90.37	AP1

MOTA	2843	OD1		21	51.172	10.479	29.200	1.00 90.49	AP1
ATOM	2844	OD2	ASP	21	49.463	11.878	29.201	1.00 90.73	AP1
ATOM	2845	C	ÀSP	21	53.742	13.265	27.512	1.00 88.90	AP1
ATOM	2846	0	ASP	21	53.788	13.161	26.288	1.00 88.82	AP1
ATOM	2847	N	VAL	22	54.287	14.273	28.186	1.00 88.02	AP1
MOTA	2848	CA	VAL	22	55.034	15.336	27.534	1.00 86.78	AP1
ATOM	2849	CB	VAL	22	55.323	16.508	28.529	1.00 87.06	AP1
MOTA	2850	CG1	VAL	22	56.038	17.662	27.822	1.00 86.97	AP1
ATOM	2851	CG2	VAL	22	54.014	16.997	29.147	1.00 87.18	AP1
ATOM	2852	С	VAL	22	56.348	14.744	27.032	1.00 85.76	AP1
ATOM	2853	0	VAL	22	57.414	14.993	27.596	1.00 85.65	AP1
ATOM	2854	N	LYS	23	56.253	13.930	25.985	1.00 84.59	AP1
ATOM	2855	CA	LYS	23	57.427	13.314	25.382	1.00 83.57	AP1
ATOM	2856	CB	LYS	23	57.121	11.861	24.978	1.00 83.52	AP1
ATOM	2857	С	LYS	23	57.719	14.171	24.154	1.00 82.69	AP1
ATOM	2858	ō	LYS	23	56.838	14.353	23.317	1.00 82.89	AP1
ATOM	2859	N	LEU	24	58.943	14.691	24.056	1.00 81.40	AP1
ATOM	2860	CA	LEU	24	59.356	15.573	22.955	1.00 80.08	AP1
ATOM	2861	CB	LEU	24	60.872	15.489	22.737	1.00 79.75	AP1
ATOM	2862	CG	LEU	24	61.731	16.258	23.739	1.00 79.50	AP1
ATOM	2863		LEU	24	61.624	15.608	25.106	1.00 79.62	AP1
ATOM	2864		LEU	24	63.163	16.267	23.275	1.00 79.52	AP1
ATOM	2865	C	LEU	24	58.655	15.423	21.610	1.00 79.39	
ATOM	2866	Ö	LEU	24	58.428	16.416	20.920		AP1
ATOM	2867	И	GLU	25	58.306	14.198	20.920	1.00 79.17 1.00 78.68	AP1
ATOM	2868	CA	GLU	25 ·	57.650				AP1
ATOM	2869	CB	GLU	25 · 25	57.965	13.981	19.952	1.00 78.37	AP1
ATOM	2870					12.579	19.408	1.00 78.68	AP1
		CG	GLU	25	59.443	12.271	19.291	1.00 79.23	AP1
ATOM	2871	CD	GLU	25	59.891	11.221	20.293	1.00 79.42	AP1
ATOM	2872	OE1		25	59.178	11.021	21.303	1.00 79.38	AP1
ATOM	2873		GLU	25	60.956	10.606	20.072	1.00 79.41	AP1
ATOM	2874	C	GLU	25	56.138	14.163	19.977	1.00 77.58	AP1
ATOM	2875	0	GLU	25	55.499	14.132	18.931	1.00 77.72	AP1
ATOM	2876	N	ALA	26	55.566	14.345	21.161	1.00 76.67	AP1
ATOM	2877	CA	ALA	26	54.123	14.513	21.286	1.00 75.78	AP1
ATOM	2878	CB	ALA	26	53.695	14.309	22.740	1.00 75.80	AP1
ATOM	2879	C	ALA	26	53.625	15.869	20.790	1.00 75.27	AP1
MOTA		. 0	ALA	26	54.006	16.920	21.328	1.00 75.04	AP1
MOTA	2881	N	SER	27	52.783	15.839	19.755	1.00 74.60	AP1
MOTA	2882	CA	SER	27	52.188	17.064	19.214	1.00 73.92	AP1
MOTA	2883	CB	SER	27	51.502	16.804	17.874	1.00 73.95	AP1
MOTA	2884	OG	SER	27	50.754	17.940	17.470	1.00 73.19	AP1
ATOM	2885	C	SER	27	51.141	17.561	20.205	1.00 73.32	AP1
ATOM	2886	0	SER	27	50.448	16.765	20.839	1.00 73.44	AP1
MOTA	2887	N	PHR	28	51.020	18.874	20.333	1.00 72.76	AP1
ATOM	2888	CA	PHE	28	50.057	19.439	21.264	1.00 72.39	AP1
MOTA	2889	CB	PHB	28	50.196	20.969	21.345	1.00 71.67	AP1
ATOM	2890	CG	PHE	28	51.538	21.431	21.825	1.00 70.96	AP1
MOTA	2891		PHE	28	51.948	21.175	23.131	1.00 70.16	AP1
MOTA	2892		PHE	28	52.407	22.105	20.962	1.00 70.39	AP1
MOTA	2893		PHE	28	53.207	21.579	23.571	1.00 69.79	AP1
ATOM	2894	CE2	PHE	28	53.668	22.515	21.393	1.00 69.61	AP1
MOTA	2895	CZ	PHE	28	54.068	22.251	22.697	1.00 69.78	AP1
ATOM	2896	C	PHE	28	48.635	19.090	20.870	1.00 72.17	AP1
ATOM	2897	0	PHE	28	47.913	18.445	21.628	1.00 71.91	AP1
ATOM	2898	N	LYS	29	48.239	19.499	19.675	1.00 72.50	AP1
ATOM	2899	CA	LYS	29	46.877	19.262	19.244	1.00 73.27	AP1

ATOM	2900	CB	LYS	29	46.622	19.945	17 000		
MOTA	2901		LYS	29	47.348	21.272	17.898	1.00 73.40	AP1
ATOM	2902	CD	LYS	29	46.788	22.164		1.00 73.52	AP1
ATOM	2903	CE	LYS	29	45.573	22.953	16.669 17.146	1.00 73.98	AP1
MOTA	2904	NZ	LYS	29	45.197	24.052	16.207	1.00 74.17	AP1
ATOM	2905	C	LYS	29	46.551	17.782	19.170	1.00 73.83	AP1
ATOM	2906	0	LYS	29	45.597	17.329	19.805	1.00 73.71	AP1
MOTA	2907	N	GLU	30	47.368	17.023	18.446	1.00 73.88 1.00 74.16	AP1
ATOM	2908	CA	GLU	30	47.126	15.590	18.271	1.00 74.16	AP1
ATOM	2909	CB	GLU	30	48.023	15.049	17.170	1.00 75.07	AP1
ATOM	2910	CG	GLU	30	47.947	15.852	15.929	1.00 76.86	AP1 AP1
MOTA	2911	CD	GLU	30	48.057	14.977	14.718	1.00 78.78	API
ATOM	2912		GLU	30	49.056	14.212	14.642	1.00 79.54	AP1
ATOM	2913	OE2		30	47.147	15.046	13.847	1.00 79.33	AP1
ATOM	2914	C	GLU	30	47.257	14.667	19:484	1.00 74.38	AP1
MOTA	2915	0	GLU	30	46.340	13.875	19.775	1.00 74.75	API
ATOM	2916	N	ASP	31	48.381	14.769	20.192	1.00 73.09	AP1
ATOM	2917	CA	ASP	31	48.636	13.897	21.328	1.00 71.86	AP1
ATOM ATOM	2918	CB	ASP	31	50.132	13.566	21.384	1.00 72.88	AP1
ATOM	2919 2920	CG	ASP	31	50.652	13.051	20.069	1.00 73.78	AP1
ATOM	2921		ASP	31	50.012	12.137	19.501	1.00 74.25	API
ATOM	2922	C	ASP	31	51.695	13.561	19.601	1.00 75.05	AP1
ATOM	2923	0	ASP ASP	31	48.184	14.360	22.706	1.00 70.61	AP1
ATOM	2924	И	LEU	31	47.738	13.543	23.527	1.00 70.48	AP1
ATOM	2925	CA	LEU	32 32	48.286	15.659	22.970	1.00 68.61	AP1
ATOM	2926	CB	LEU		47.934	16.158	24.296	1.00 66.10	API
ATOM	2927	CG	LEU	32 32	48.990	17.177	24.745	1.00 65.45	API
ATOM	2928		LEU	32	50.426	16.633	24.584	1.00 64.39	AP1
ATOM	2929		LEU	32	51.434	17.693	24.928	1.00 64.02	AP1
ATOM	2930	c	LEU	32	50.618 46.542	15.417	25.477	1.00 63.67	AP1
ATOM	2931	ō	LEU	32	46.238	16.731	24.419	1.00 64.48	AP1
ATOM	2932	N	GLY	23	45.704	17.395 16.464	25.403	1.00 65.05	AP1
ATOM	2933	CA	GLY	33	44.326	16.944	23.422	1.00 62.24	AP1
ATOM	2934	C	GLY	33	44.083	18.452	23.434 23.397	1.00 59.99	AP1
ATOM	2935	0	GLY	33	43.140	18.960	24.018	1.00 58.02	AP1
MOTA	2936	N	ALA	34	44.904	19.172	22.639	1.00 57.75 1.00 55.70	AP1
ATOM	2937	CA	ALA	3'4	44.774	20.612	22.568	1.00 53.70	AP1
ATOM	2938	CB	ALA	34	46.160	21.243	22.618	1.00 53.12	API
MOTA	2939	C	ALA	34	43.996	21.131	21.357	1.00 51.67	API
MOTA	2940	0	ALA	34	44.030	20.555	20.265	1.00 52.46	AP1 AP1
ATOM	2941	N	ASP	35	43.254	22.203	21.577	1.00 49.18	.AP1
MOTA	2942	CA	ASP	35	42.542	22.835	20.495	1.00 47.71	API
MOTA	2943	CB	ASP	35	41.047		20.817	1.00 47.47	APL
MOTA	2944	CG	ASP	35	40.800	23.937	22.053	1.00 48.06	API
ATOM	2945		ASP	35	41.772	24.521	22.632	1.00 47.16	AP1
ATOM	2946		ASP	35	39.605	24.042	22.435	1.00 47.60	AP1
ATOM	2947	C	ASP	35	43.241	24.178	20.327	1.00 46.40	AP1
ATOM	2948	0	ASP	35	44.248	24.448	21.002	1.00 45.96	APL
ATOM	2949	CA	PAN	36	43.266	26.327	19.165	1.00 43.36	AP1
MOTA	2950	N	PAN	36	42.705	25.005	19.437	1.00 44.57	AP1
ATOM	2951	C	PAN	36	43.389	27.308	20.387	1.00 41.47	API
atom atom	2952	0	PAN	36	44.435	27.948	20.563	1.00 39.31	AP1
ATOM	2953	05	PAN	36	43.295	28.035	17.578	1.00 47.40	AP1
ATOM	295 <b>4</b> 2955	P6	PAN	36	44.014	27.865	16.147	1.00 49.84	AP1
ATOM	2956	07	PAN	.36	43.369	29.013	15.282	1.00 47.80	AP1
		08	PAN	36	43.594	26.426	15.540	1.00 47.32	AP1
									-

MOTA	2957	09	PAN	36	45.529	28.004	16.288	1 00 40 4	
MOTA	2958	СВ	· PAN	36	42.468	26.996	18.055	1.00 48.6	
MOTA	2959	N	LEU	37	42.317	27.456	21.167	1.00 43.6	
MOTA	2960	CA	LEU	37	42.342	28.307	22.361	1.00 38.7	
MOTA	2961	CB	LEU	37	40.970	28.384	23.033	1.00 38.6	
ATOM	2962	CG	LEU	37	40.084	29.491	22.490	1.00 38.4	
ATOM	2963		LEU	37	38.726	29.397	23.139	1.00 40.8	
ATOM	2964		FEU	37	40.730	30.853	22.756	1.00 39.8	
ATOM	2965	C	LEU	37	43.362	27.750	23.371	1.00 38.1	
ATOM	2966	0	LEU	37	44.001	28.511	24.055	1.00 37.6	
ATOM	2967	И	ASP	38	43.508	26.424	23.440	1.00 37.3	
ATOM	2968	CA	ASP	38	44.480	25.846	24.318	1.00 37.4	
ATOM ATOM	2969	CB	ASP	38	44.312	24.319	24.400	1.00 39.7	
ATOM	2970 2971	CG	ASP	38	43.138	23.905	25.321	1.00 43.2	
ATOM	2972		ASP ASP	38	42.294	23.072	24.867	1.00 44.7	
ATOM	2973	C		38	43.061	24.418	26.492	1.00 44.1	3 AP1
ATOM	2974	Ö	ASP ASP	38	45.895	26.193	23.881	1.00 36.2	9 AP1
ATOM	2975	И	VAL	38	46.726	26.520	24.719	1.00 35.7	2 AP1
ATOM	2976	CA	VAL	39	46.185	26.160	22.578	1.00 34.9	4 AP1
ATOM	2977	СВ	VAL	39 39	47.551	26.435	22.162	1.00 33.4	
ATOM	2978	CG1		39	47.891 46.700	25.854	20.691	1.00 33.8	
ATOM	2979	-	VAL	39	49.064	25.967	19.759	1.00 33.2	
ATOM	2980	c	VAL	39	47.880	26.630	20.071	1.00 34.1	
ATOM	2981	Ō	VAL	39	49.011	27.918 28.262	22.250	1.00 33.3	
ATOM	2982	N	VAL	40	46.934	28.826	22.562	1.00 32.1	·
ATOM	2983	CA	VAL	40	47.407	30.174	22.015 22.138	1.00 33.8	<del>-</del>
MOTA	2984	CB	VAL	40	46.499	31.306	22.138	1.00 36.0	
MOTA	2985	CG1	VAL	40	45.532	30.732	20.402	1.00 36.8	<del>-</del>
MOTA	2986	CG2	VAL	40	45.841	32.142	22.569	1.00 37.1 1.00 37.0	· · · · <del>- ·</del>
MOTA	2987	C	VAL	40	47.660	30.465	23.597	1.00 36.8	·
ATOM	2988	0	VAL	40	48.564	31.235	23.899	1.00 36.7	
MOTA	2989	N	GLU	41	46.904	29.854	24.505	1.00 36.9	
ATOM	2990	CA	GLU	41	47.171	30.150	25.886	1.00 38.6	
ATOM	2991	CB	GLU	41	46.139	29.525	26.818	1.00 39.0	
ATOM	2992	CG	GLU	41	46.536	29.747	28.282	1.00 40.8	
ATOM	2993	Œ	GLU	41	45.374	30.037	29.249	1.00 41.7	
ATOM	2994	OE1		41	44.188	29.696	28.971	1.00 40.7	
ATOM	2995	OE2		41	45.683	30.631	30.315	1.00 42.7	
ATOM	2996	C	GLU	41	48.580	29.659	26.229	1.00 38.9	
MOTA MOTA	2997	0	GLU	41	49.363	30.383	26.838	1.00 38.2	
ATOM	2998 2999	N	LEU	42	48.861	28.430	25.796	1.00 39.9	
ATOM	3000	CA	LEU	42	50.133	27.723	25.954	1.00 40.7	
ATOM	3001	CB	LEU	42	50.101	26.447	25.109	1.00 41.6	
ATOM	3002		LEU	42	50.783	25.184	25.623	1.00 43.5	
ATOM	3003		LEU	42	50.961	25.237	27.132	1.00 44.3	
ATOM	3004	C	LEU	42 42	49.923	23.986	25.254	1.00 44.2	
ATOM	3005	ŏ	LEU	42	51.248	28.618	25.448	1.00 41.8	- <del></del>
ATOM	3006	N	VAL	43	52.310	28.774	26.107	1.00 41.8	·
ATOM	3007	CA	VAL	43	51.019	29.192	24.271	1.00 41.6	
ATOM	3008	СВ	VAL	43	52.002 51.572	30.099	23.698	1.00 43.10	
ATOM	3009		VAL	43	51.573 52.461	30.626	22.280	1.00 41.9	
ATOM	3010		VAL	43	51.683	31.773	21.849	1.00 42.09	
ATOM	3011	C	VAL	43	52.205	29.525 31.299	21.272	1.00 41.68	_
ATOM	3012	0	VAL	43	53.334	31.710	24.642	1.00 44.58	
ATOM	3013	N	MET	44	51.129	31.846	24.885		
							25.198	1.00 46.5	5 AP1

ATOM	3014	CA	MET	44	51.271	33.002	26.081	1.00 48.50	AP1
ATOM	3015	CB	MET	44	49.903	33.596	26.411	1.00 50.62	API
ATOM	3016	CG	MET	44	49.036	33.830	25.191	1.00 53.31	API
ATOM	3017	SD	MET	44	48.010	35.308	25.274	1.00 56.48	AP1
ATOM	3018	CE	MET	44	49.023	36.381	24.091	1.00 56.10	AP1
ATOM	3019	C	MET	44	52.030	32.673	27.367	1.00 48.61	AP1
ATOM	3020	0	MET	44	52.746	33.505	27.895	1.00 47.98	AP1
MOTA	3021	N	GLU	45	51.862	31.456	27.850	1.00 49.57	
ATOM	3022	CA	GLU	45	52.537	30.979	29.047	1.00 51.80	AP1
ATOM	3023	CB	GLU	45	52.109	29.544	29.311	1.00 53.29	AP1
ATOM	3024	CG	GLU	45	51.852	29.175	30.731	1.00 56.51	AP1
ATOM	3025	CD	GLU	45	50.397	29.315	31.099	1.00 58.24	AP1
ATOM	3026	0E1	GLU	45	50.000	30.403	31.586	1.00 60.07	AP1
ATOM	3027	OE2	GLU	45	49.646	28.331	30.896	1.00 59.11	AP1
ATOM	3028	C	GLU	45	54.058	31.013	28.761	1.00 52.25	AP1
ATOM	3029	0	GLU	45	54.836	31.596	29.526	1.00 52.28	AP1
ATOM	3030	N	LEU	46	54.456	30.385	27.647	1.00 52.28	AP1
ATOM	3031	CA	LEU	46	55.846	30.334	27.202	1.00 52.33	AP1
ATOM	3032	CB	LEU	46	55.940	29.537	25.901	1.00 50.17	AP1
ATOM	3033	CG	LEU	46	55.566	28.059	26.106	1.00 49.48	AP1
ATOM	3034	CD1	LEU	46	55.363	27.370	24.784	1.00 47.80	AP1
ATOM	3035	CD2	LEU	46	56.621	27.370	26.902	1.00 47.80	AP1
ATOM	3036	C	LEU	46	56.453	31.735	27.029		API
ATOM	3037	0	LEU	46	57.541	31.975	27.531	1.00 53.27	AP1
ATOM	3038	N	GLU	47	55.760	32.656	26.344	1.00 53.30	AP1
ATOM	3039	CA	GLU	47	56.254	34.042	26.152	1.00 54.28	AP1
MOTA	3040	CB	GLU	47	55.254	34.859	25.313	1.00 55.41	AP1
ATOM	3041	CG	GLU	47	54.558	34.403		1.00 55.37	AP1
ATOM	3042	В	GLU	47	53.941	35.658	24.030	1.00 20.00	AP1
ATOM	3043		GLU	47	53.223	36.026	23.455	1.00 20.00	AP1
ATOM	3044	OE2	GLU	47	53.223		24.374	1.00 20.00	AP1
ATOM	3045	c	GLU	47	56.579	36.198 34.717	22.351	1.00 20.00	APL
ATOM	3046	ō	GLU	47.	57.556		27.501	1.00 56.17	AP1
ATOM	3047	N	ASP	48	55.699	35.469	27.650	1.00 55.04	AP1
ATOM	3048	CA	ASP	48	55.841	34.470	28.460	1.00 57.41	AP1
MOTA	3049	СВ	ASP	48		35.008	29.798	1.00 58.55	AP1
ATOM	3050	CG	ASP	48	54.522	34.865	30.572	1.00 59.09	AP1
ATOM	3051		ASP	48	53.486	35.890	30.153	1.00 60.41	AP1
ATOM	3052		ASP		53.856	36.825	29.408	1.00 60.98	AP1
ATOM	3053	C	ASP	48	52.308	35.775	30.581	1.00 61.28	AP1
ATOM	3054	0	ASP	48	56.959	34.278	30.523	1.00 58.58	AP1
ATOM	3055			48	57.880	34.911	31.005	1.00 58.57	AP1
ATOM	3056	N CA	GLT.	49	56.888	32.952	30.565	1.00 59.20	. AP1
ATOM	3057	CB		49	57.884	32.133	31.251	1.00 60.01	AP1
ATOM	3058	CG	GLU	49	57.414	30.677	31.237	1.00 60.67	AP1
ATOM	3059	CD	GLU	49	58.437	29.655	31.732	1.00 61.95	AP1
ATOM	3060	OE1	GLU	49	58.960	30.013	33.107	1.00 62.06	AP1
ATOM	3061	OE2		49	58.130	30.354	33.981	1.00 62.53	AP1
ATOM	3062			49	60.188	29.960	33.313	1.00 61.75	AP1
ATOM		C	GLU	49	59.333	32.194	30.737	1.00 60.39	AP1
ATOM	3063 3064	0	GLU	49	60.240	31.675	31.382	1.00 60.33	AP1
ATOM		N	PHE	50	59.566	32.832	29.597	1.00 60.48	AP1
	3065	CA	PHE	50	60.908	32.856	29.019	1.00 61.05	AP1
MOTA	3066	CB	PHE	50	61.071	31.784	27.935	1.00 59.10	AP1
MOTA	3067	CG	PHE	50	61.038	30.362	28.437	1.00 57.27	AP1
ATOM	3068	CD1		50	62.133	29.808	29.079	1.00 56.58	AP1
ATOM	3069	CD2		50	59.922	29.563	28.224	1.00 56.22	AP1
MOTA	3070	CE1	PHE	.50	62.110	28.478	29.496	1.00 56.30	AP1

MOTA	3071	CE2	PHE	50	59.897	28.235	28.642	1.00 55.50	
ATOM	3072	CZ	PHE	50	60.992	27.693	29.276	1.00 55.77	AP1
MOTA	3073	C	PHE	50	61.159	34.167	28.353	1.00 62.82	AP1
MOTA	3074	0	PHE	50	62.021	34.265	27.484	1.00 63.54	AP1
ATOM	3075	N	ASP	51	60.379	35.173	28.711	1.00 64.37	AP1
MOTA	3076	CA	ASP	51	60.579	36.477	28.118	1.00 66.05	AP1
MOTA	3077	CB	ASP	51	61.683	37.213	28.893	1.00 66.72	API
MOTA	3078	CG	ASP	51	62.056	38.540	28.265	1.00 67.40	AP1
ATOM	3079		ASP	51	61.179	39.425	28.226	1.00 68.03	AP1
ATOM	3080	OD2		51	63.215	38.699	27.808	1.00 67.55	AP1 AP1
MOTA	3081	C	ASP	51 <i>°</i>	60.932	36.430	26.618	1.00 66.81	AP1
ATOM	3082	0	ASP	51	62.073	36.731	26.236	1.00 67.47	AP1
ATOM	3083	N	MET	52	59.968	36.028	25.780	1.00 67.15	AP1
ATOM	3084	CA	MET	52	60.145	36.013	24.317	1.00 66.82	AP1
MOTA	3085	CB	MET	52	60.497	34.615	23.776	1.00 68.05	API
ATOM	3086	CG	MET	52	60.181	33.433	24.675	1.00 69.70	AP1
ATOM	3087	SD	MET	52	60.796	31.866	23.923	1.00 72.25	AP1
ATOM	3088	CE	MET	52	62.181	31.386	25.057	1.00 71.72	AP1
ATOM	3089	C	MET	52	58.877	36.557	23.637	1.00 65.95	API
ATOM	3090	0	MET	52	57.921	36.956	24.315	1.00 65.80	AP1
MOTA	3091	N	GLU	53	58.861	36.580	22.310	1.00 64.45	AP1
ATOM	3092	CA	GLU	53	57.714	37.128	21.607	1.00 63.42	AP1
ATOM	3093	CB	GLU	53	58.201	38.195	20.621	1.00 64.63	API
ATOM	3094	CG	GLU	53	57.177	39.291	20.326	1.00 66.71	AP1
ATOM	3095	CD	GLU	53	57.823	40.623	19.911	1.00 67.92	AP1
ATOM	3096		GLU	53	58.632	40.625	18.944	1.00 68.49	AP1
ATOM ATOM	3097	OE2	GLU	<b>53</b>	57.517	41.663	20.559	1.00 68.15	AP1
ATOM	3098	C	GLU	53	57.754	35.920	20.646	1.00 61.78	AP1
ATOM	3099	0	GLU	53	58.839	35.510	20.228	1.00 62.18	AP1
ATOM	3100 3101	N	ILE	54	56.598	35.363	20.297	1.00 59.09	AP1
ATOM	3102	CA CB	ILE	54	56.484	34.192	19.385		AP1
ATOM	3103	CG2	ILE	54	56.061	32.975	20.277	1.00 55.84	AP1
ATOM	3104	CG1	ILE	54 54	55.752	31.773	19.377	1.00 55.47	AP1
ATOM	3105	CD1		54	57.196	32.570	21.220	1.00 56.28	AP1
ATOM	3106	C	ILE	54 54	56.839	31.459	22.208	1.00 56.74	AP1
ATOM	3107	o	ILE	5 <b>4</b>	55.225	34.629	18.600	1.00 55.56	AP1
ATOM	3108	N	SER	5 <b>5</b>	54.095	34.632	19.122	1.00 55.94	AP1
ATOM	3109	CA	SER	55 55	55.424	34.947	17.328	1.00 53.24	AP1
ATOM	3110	СВ	SER	55	54.345	35.363	16.445	1.00 51.67	AP1
ATOM	3111	OG	SER	55 55	54.957 55.754	35.881	15.149	1.00 51.59	AP1
ATOM	3112	C	SER	55	53.754	34.843 34.188	14.601	1.00 50.98	AP1
ATOM	3113	Ō	SER	55	53.686	33.025	16.111	1.00 50.89	· AP1
ATOM	3114	N	ASP	56	52.263	34.505	16.427	1.00 50.20	AP1
ATOM	3115	CA	ASP	56	51.301	33.486	15.477 15.055	1.00 50.52 1.00 50.73	AP1
MOTA	3116	СВ	ASP	56	50.115	34.112	14.282	1.00 50.73	AP1
ATOM	3117	CG	ASP	56	49.076	34.796	15.193	1.00 51.39	AP1
ATOM	3118	OD1		56	48.939	34.396	16.388	1.00 52.27	AP1
ATOM	3119	OD2		56	48.379	35.718	14.699	1.00 50.84	AP1
MOTA	3120	C	ASP	56	52.062	32.536	14.109	1.00 50.93	AP1 AP1
MOTA	3121	0	ASP	56	51.741	31.347	13.989	1.00 49.65	API API
MOTA	3122	N	GLU	57	53.073	33.080	13.430	1.00 51.57	AP1
ATOM	3123	CA	GLU	57	53.881	32.285	12.510	1.00 52.66	API API
ATOM	3124	CB	GLU	57	54.800	33.183	11.681	1.00 53.96	AP1
MOTA	3125	CG	GLU	57	55.384	32.498	10.470	1.00 56.75	API
ATOM	3126	œ	GLU	57	56.048	33.482	9.499	1.00 58.76	API
ATOM	3127	OE1	GLU	57	57.233	33.860	9.730	1.00 59.00	API
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MOTA	3128	OE2	GLU	57	55.365	33.881	8.511	1.00 59.50	AP1
ATOM	3129	C	GLU	57	54.702	31.276	13.309	1.00 52.17	AP1
MOTA	3130	0	GLU	57	54.669	30.082	13.030	1.00 50.84	AP1
MOTA	3131	N	ASP	58	55.404	31.757	14.325	1.00 52.81	AP1
MOTA	3132	CA	ASP	58	56.208	30.863	15.154	1.00 54.03	AP1
MOTA	3133	CB	ASP	58	57.101	31.661	16.094	1.00 53.98	AP1
ATOM	3134	CG	ASP	58	58.039	32.606	15.349	1.00 55.50	AP1
MOTA	3135	OD1		58	58.353	32.363	14.146	1.00 54.46	APL
MOTA	3136	OD2		58	58.468	33.599	15.993	1.00 57.16	AP1
ATOM	3137	C	ASP	58	55.328	29.901	15.960	1.00 54.50	AP1
ATOM	3138 3139	0	ASP	58 59	55.769	28.803 30.294	16.345	1.00 54.65	AP1
MOTA MOTA	3140	N CA	ALA ALA	59	54.083 53.206	29.405	16.215 16.957	1.00 54.12 1.00 54.32	AP1
ATOM	3141	CB	ALA	59	51.865	30.091	17.249	1.00 54.32	AP1 AP1
ATOM	3142	C	ALA	59	52.997	28.171	16.096	1.00 54.49	AP1
ATOM	3143	Ö	ALA	59	53.039	27.045	16.571	1.00 53.95	AP1
ATOM	3144	N	GLU	60	52.803	28.376	14.805	1.00 55.25	API
ATOM	3145	CA	GLU	60	52.573	27.223	13.962	1.00 56.49	AP1
ATOM	3146	CB	GLU	60	52.040	27.639	12.596	1.00 56.75	API
ATOM	3147	CG	GLU	60	51.899	26.484	11.628	1.00 58.07	AP1
ATOM	3148	CD	GLU	60	51.013	26.849	10.463	1.00 59.05	AP1
ATOM	3149	OE1	GLU	60	49.784	26.570	10.543	1.00 60.39	AP1
MOTA	3150	OE2	GLU	60	51.540	27.436	9.490	1.00 58.55	AP1
ATOM	3151	C	GLU	60	53.820	26.367	13.820	1.00 56.93	AP1
ATOM	3152	0	GLU	60	53.703	25.155	13.593	1.00 57.48	AP1
ATOM	3153	N	LYS	61	55.014	26.947	13.965	1.00 56.79	AP1
ATOM	3154	CA	LYS	61	56.174	26.073	13.861	1.00 57.27	AP1
MOTA	3155	CB	LYS	61	57.519	26.797	13.840	1.00 57.94	AP1
MOTA	3156	CG	LYS	61	58.612	25.719	13.702	1.00 59.35	AP1
MOTA	3157	CD	LYS	61	60.038	26.222	13.793	1.00 61.65	AP1
MOTA	3158	CE	LYS	61	61.023	25.049	13.679	1.00 61.95	AP1
ATOM	3159	NZ	LYS	61	62.451	25.504	13.695	1.00 62.10	AP1
ATOM	3160	C	LYS	61	56.246	25.084	15.005	1.00 56.70	AP1
MOTA	3161	0	LYS	61	56.534	23.906	14.792	1.00 56.75	AP1
ATOM	3162	И	ILE	62	55.985	25.552	16.224	1.00 56.23	AP1
ATOM	3163	CA	ILE	62	56.084	24.651	17.355	1.00 55.58 1.00 55.21	AP1 AP1
MOTA MOTA	3164	CB CG2	ILE	62 62	56.520	25.434 26.184	18.608 18.284	1.00 54.70	AP1
ATOM	3165 3166		ILE	62	57.819 55.491	26.474	19.002	1.00 54.70	AP1
ATOM	3167		ILE	62°	55.913	27.242	20.214	1.00 54.20	AP1
ATOM	3168	c	ILE	62	54.887	23.723	17.593	1.00 55.31	AP1
ATOM	3169	ō	ILE	62	54.109	23.854	18.542	1.00 55.02	AP1
ATOM	3170	N	ALA	63	54.799	22.741	16.704	1.00 55.03	. AP1
ATOM	3171	CA	ALA	63	53.758	21.722	16.726	1.00 54.72	AP1
MOTA	3172	CB	ALA	63	53.658	21.063	15.349	1.00 54.68	AP1
MOTA	3173	C	ALA	63	53.950	20.640	17.790	1.00 54.19	AP1
ATOM	3174	0	ALA	63	52.979	20.028	18.223	1.00 54.15	AP1
MOTA	3175	N	THR	64	55.192	20.381	18.195	1.00 53.96	AP1
MOTA	3176	CA	THR	64	55.457	19.358	19.222	1.00 53.49	API
MOTA	3177	CB	THR	64	56.341	18.195	18.695	1.00 52.92	AP1
ATOM	3178		THR	64	57.656	18.696	18.412	1.00 51.65	AP1
MOTA	3179	CG2		64	55.731	17.563		1.00 53.03	AP1
MOTA	3180	C	THR	64	56.194	19.899		1.00 53.33	AP1
MOTA	3181	0	THR	64	56.707			1.00 52.73	AP1
MOTA	3182	N	VAL	65	56.262			1.00 53.66	AP1
MOTA	31.83	CA	VAL	65	56.961				AP1
ATOM	3184	CB	VAL	65	56.907	18.244	23.702	1.00 54.27	AP1

MOTA	3185		VAL	65	57.520	18.646	25.030	1.00 54.06	AP1
MOTA	3186		VAL	65	55.465	17.803	23.892	1.00 54.41	AP1
MOTA	3187	C	VAL	65	58.439	19.770	22.380	1.00 53.79	AP1
ATOM	3188	0	VAL	65	58.992	20.727	22.922	1.00 53.70	AP1
MOTA	3189	И	GLY	66	59.058	18.982	21.497	1.00 53.49	AP1
ATOM	3190	CA	<b>GLY</b>	66	60.448	19.199	21.126	1.00 52.65	AP1
ATOM	3191	C	GLY	66	60.633	20.472	20.339	1.00 52.63	API
ATOM	3192	0	GLY	66	61.672	21.145	20.420	1.00 51.80	AP1
ATOM	3193	N	ASP	67	59.607	20.815	19.575	1.00 53.18	AP1
ATOM	3194	CA	ASP	67	59.631		18.778	1.00 53.33	API API
ATOM	3195	CB	ASP	67	58.347	22.085	17.939	1.00 54.43	AP1
ATOM	3196	CG	ASP	67	58.291	20.970	16.900	1.00 55.53	AP1
ATOM	3197	OD1	ASP	67	57.211	20.358	16.671	1.00 55.75	
ATOM	3198	OD2		67	59.353	20.719	16.294	1.00 56.16	AP1
ATOM	3199	C	ASP	67	59.745	23.248	19.715	1.00 53.22	AP1
ATOM	3200	0	ASP	67	60.588	24.156	19.528	1.00 53.22	AP1
ATOM	3201	N	ALA	68	58.905	23.270	20.741		AP1
ATOM	3202	CA	ALA	68	58.971	24.384	21.666	1.00 53.13	AP1
ATOM	3203	CB	ALA	68	57.936	24.246		1.00 53.88	AP1
ATOM	3204	C	ALA	68	60.367		22.742	1.00 52.72	AP1
ATOM	3205	ō	ALA	68	61.017	24.425	22.280	1.00 53.95	AP1
ATOM	3206	N	VAL	69		25.454	22.264	1.00 54.56	AP1
ATOM	3207	CA	VAL		60.833	23.309	22.807	1.00 54.46	AP1
ATOM	3208	CB	VAL	69 60	62.161	23.283	23.417	1.00 55.62	AP1
ATOM	3209		VAL	69 60	62.548	21.836	23.806	1.00 55.19	AP1
MOTA	3210		VAL	69 60	63.998	21.787	24.255	1.00 56.16	AP1
ATOM				69	61.638	21.338	24.923	1.00 54.08	AP1
ATOM	3211	C	VAL	69	63.223	23.905	22.491	1.00 56.45	AP1
	3212	0	VAL	69	63.865	24.895	22.849	1.00 55.15	AP1
ATOM	3213	N	ASN	70	63.387	23.335	21.298	1.00 58.25	AP1
ATOM	3214	CA	ASN	70	64.356	23.856	20.326	1.00 60.36	AP1
ATOM	3215	СВ	ASN	70	64.185	23.230	18.930	1.00 60.51	AP1
ATOM	3216	CG	ASN	70	64.407	21.739	18.914	1.00 60.64	AP1
ATOM	3217		ASN	70	65.442	21.254	19.343	1.00 61.77	AP1
ATOM	3218		ASN	70	63.432	21.003	18.404	1.00 60.71	AP1
ATOM	3219	C	asn	70	64.174	25.345	20.137	1.00 61.62	AP1
MOTA	3220	0	asn	70	65.157	26.080	20.052	1.00 61.81	AP1
MOTA	3221	N	TYR	71	62.915	25.776	20.037	1.00 63.25	AP1
MOTA	3222	CA	TYR	71	62.599	27.181	19.821	1.00 65.19	AP1
MOTA	3223	CB	TYR	71	61.097	27.371	19.585	1.00 65.08	AP1
MOTA	3224	CG	TYR	71	60.728	28.814	19.325	1.00 64.90	AP1
MOTA	3225	CD1	TYR	71	60.413	29.668	20.377	1.00 64.71	AP1
MOTA	3226	CE1	TYR	71	60.151	31.008	20.160	1.00 65.27	· AP1
MOTA	3227	CD2	TYR	71	60.769	29.342	18.034	1.00 64.62	AP1
ATOM	3228	CE2	TYR	71	60.508		17.800	1.00 64.75	AP1
ATOM	3229	CZ	TYR	71	60.197	31.517	18.866	1.00 65.04	AP1
ATOM	3230	OH	TYR	71	59.928	32.854	18.650	1.00 64.43	AP1
ATOM	3231	C	TYR	71	63.069	28.048	20.980	1.00 66.81	APL
ATOM	3232	0	TYR	71	63.375	29.238	20.803	1.00 66.70	AP1
MOTA	3233	N	ILE	72	63.138	27.440	22.161	1.00 68.59	AP1
MOTA	3234	CA	ILE	72	63.609	28.126	23.354	1.00 70.76	AP1
ATOM .	3235	СВ	ILE	72	62.898	27.583	24.594	1.00 70.58	AP1
ATOM	3236		ILE	72	63.445	28.260	25.878	1.00 70.38	API API
ATOM	3237		ILE	72	61.394			1.00 70.73	AP1
ATOM	3238		ILE	72 72	60.562	27.804	24.416		
ATOM	3239	C	ILE	72 72		27.205	25.496	1.00 69.78	AP1
MOTA	3240	0.	ILE		65.130	27.925	23.466	1.00 72.57	AP1
ATOM	3241	N .		72 73	65.684		. 24.533	1.00 73.27	AP1
AIOM	2447	T.A	GLN	.73	65.791	28.072	22.325	1.00 74.34	AP1

ATOM	3242	CA	GLN	73	67.235	27.953	22.214	1 00 75 70	_
ATOM	3243	CB	GLN	73	67.636	26.483	22.085	1.00 75.70 1.00 76.75	
MOTA	3244	CG	GLN	73	67.369	25.611	23.306	1.00 76.75	AP1
ATOM	3245	CD	GLN	73	67.842	24.174	23.089	1.00 80.59	AP1
ATOM	3246		GLN	73	68.958	23.944	22.606	1.00 81.29	AP1
ATOM	3247		GLN	73	67.006	23.201	23.449	1.00 80.77	AP1
ATOM	3248	C	GLN	73	67.593	28.719	20.931	1.00 76.07	AP1
ATOM	3249		GLN	73	67.901	29.933	21.027	1.00 76.06	AP1 AP1
MOTA MOTA	3250	OT2		73	67.520	28.109	19.835	1.00 76.30	AP1
ATOM	3251 3252	CB	ÀLA	1	6.645	63.605	34.695	1.00 86.31	AP2
ATOM	3252	C	ALA	1	6.820	61.130	34.410	1.00 86.49	AP2
ATOM	3254	о И	ALA	1	7.722	60.410	34.845	1.00 86.43	AP2
ATOM	3255	CA	ALA ALA	1	6.500	62.631	32.424	1.00 86.34	AP2
ATOM	3256	N	ASP	1	7.130	62.486	33.774	1.00 86.44	AP2
ATOM	3257	CA	ASP	2	5.531	60.806	34.476	1.00 86.48	AP2
ATOM	3258	CB	ASP	2 2	5.054	59.549	35.054	1.00 86.12	AP2
ATOM	3259	CG	ASP	2	3.540	59.631	35.306	1.00 86.68	AP2
ATOM	3260		ASP	2	2.875 3.170	58.258	35.366	1.00 87.31	AP2
ATOM	3261	OD2		2	2.057	57.480	36.303	1.00 87.86	AP2
ATOM	3262	C	ASP	2	5.355	57.953	34.466	1.00 87.63	AP2
ATOM	3263	0	ASP	2	5.719	58.396	34.108	1.00 85.41	AP2
ATOM	3264	N	THR	3	5.199	57.291 58.662	34.538	1.00 85.00	AP2
MOTA	3265	CA	THR	3	5.455	57.639	32.815	1.00 84.56	AP2
ATOM	3266	CB	THR	3	5.146	58.144	31.824 30.366	1.00 83.93	AP2
ATOM	3267	0G1	THR	3	6.165	59.047	29.927	1.00 84.30	AP2
ATOM	3268	CG2	THR	3	3.779	58.857	30.315	1.00 84.66	AP2
ATOM	3269	C	THR	3	6.905	57.162	31.967	1.00 83.94 1.00 83.08	AP2
ATOM	3270	0	THR	3	7.174	55.971	31.831	1.00 83.08	AP2
ATOM	3271	N	LEU	4	7.827	58.073	32.275	1.00 83.08	AP2
MOTA	3272	CA	LEU	4	9.230	57.688	32.450	1.00 81.45	AP2
MOTA	3273	CB	LEU	4	10.132	58.918	32.629	1.00 81.43	AP2
ATOM	3274	CG	LEU	4	11.604	58.706	33.043	1.00 81.05	AP2 AP2
ATOM	3275		LEU	4	12.368	57.866	32.045	1.00 80.62	AP2
ATOM	3276	CD2	_	4	12.262	60.051	33.161	1.00 80.98	AP2
MOTA	3277	C	LEU	4	9.405	56.766	33.649	1.00 80.96	AP2
ATOM	3278	0	LEU	4	10.243	55.866	33.634	1.00 80.86	AP2
MOTA	3279	N	GLU	5	8.621	56.992	34.695	1.00 80.52	AP2
ATOM	3280	CA	GLU	5	8.711	56.149	35.875	1.00 80.14	AP2
MOTA MOTA	3281	СВ	GLU	5	7.842	56.718	37.013	1.00 81.37	AP2
ATOM	3282	CG	GLU	5	8.638	57.408	38.133	1.00 83.32	AP2
ATOM	3283 3284	CD	GLU	5	9.550	58.535	37.610	1.00 84.89	AP2
ATOM	3285		GLU	5	9.007	59.558	37.117	1.00 85.35	AP2
ATOM	3286	C	GLU	5	10.805	58.395	37.682	1.00 85.07	AP2
ATOM	3287	0	GLU GLU	5	8.264	54.733	35.502	1.00 79.23	AP2
ATOM	3288	и	ARG	5	8.918	53.746	35.863	1.00 78.62	AP2
ATOM	3289	CA	ARG	6	7.155	54.635	34.769	1.00 78.13	AP2
ATOM	3290	CB	ARG	6 6	6.658	53.331	34.355	1.00 77.16	AP2
	3291	CG	ARG	6	5.225	53.430	33.827	1.00 77.18	AP2
ATOM	3292	8	ARG	6	4.171	53.413	34.942	1.00 77.34	AP2
MOTA	3293	NE	ARG	6	2.764	53.134	34.408	1.00 76.80	AP2
MOTA	3294	CZ	ARG	6	2.136	54.303	33.801	1.00 75.86	AP2
ATOM	3295	NH1		6	1.053 0.482	54.245	33.030	1.00 75.80	AP2
ATOM	3296	NH2		6	0.532	53.071	32.771	1.00 75.17	AP2
MOTA	3297	C	ARG	. 6	7.571	55.361 52.706	32.523	1.00 75.41	AP2
MOTA	3298	0	ARG	6	7.896	51.521	33.310 33.405	1.00 76.44	AP2
	•		_			JJ.L	JJ.4UJ	2.00 /0.54	AP2

ATOM	3299	N	VAL	7	7.995	53.493	32.324	1.00 75.18	AP2
MOTA	3300	CA	VAL	7	8.894	52.981	31.306	1.00 74.11	AP2
MOTA	3301	CB	VAL	7	9.345	54.067	30.323	1.00 73.72	AP2
ATOM	3302	CG1		7	10.514	53.549	29.513	1.00 73.33	AP2
MOTA	3303	CG2		7	8.216	54.462	29.404	1.00 72.85	AP2
MOTA	3304	C	VAL	7	10.149	52.453	31.966	1.00 74.07	AP2
ATOM	3305	0	VAL	7	10.634	51.386	31.626	1.00 74.04	AP2
ATOM	3306	N	THR	8	10.680	53.209	32.916	1.00 74.19	AP2
ATOM ATOM	3307	CA	THR	8	11.906	52.802	33.583	1.00 74.59	AP2
ATOM	3308 3309	CB	THR	8	12.395	53.893	34.580	1.00 74.78	AP2
ATOM	3310	OG1 CG2	-	8	12.916	55.016	33.852	1.00 74.74	AP2
ATOM	3311	C	THR	8	13.493	53.348	35.489	1.00 74.82	AP2
ATOM	3312	o	THR	8	11.721	51.488	34.315	1.00 74.86	AP2
ATOM	3313	И	LYS	. 8 9	12.585	50.603	34.259	1.00 74.74	AP2
ATOM	3314	CA	LYS	9	10.590	51.368	35.001	1.00 75.13	AP2
ATOM	3315	CB	LYS	9	10.279 8.920	50.166	35.758	1.00 75.62	AP2
ATOM	3316	CG	LYS	9	8.406	50.345	36.462	1.00 76.59	AP2
ATOM	3317	CD	LYS	9	6.994	49.178	37.316	1.00 77.37	AP2
ATOM	3318	CE	LYS	9	6.274	49.508 48.308	37.828	1.00 78.26	AP2
ATOM	3319	NZ	LYS	9	6.887	47.838	38.446	1.00 78.59	AP2
ATOM	3320	C	LYS	9	10.263	48.983	39.724 34.790	1.00 79.09	AP2
ATOM	3321	0	LYS	9		47.921	35.094	1.00 75.49 1.00 75.37	AP2
ATOM	3322	N	ILE	10	9.673	49.176	33.613		AP2
ATOM	3323	CA	ILE	10	9.609	48.111	32.607	1.00 75.59 1.00 75.37	AP2
MOTA	3324	CB	ILE	10	8.897	48.569	31.322	1.00 74.85	AP2
MOTA	3325	CG2	ILE	10	8.826	47.408	30.363	1.00 75.13	AP2
MOTA	3326	CG1	ILE	10	7.499	49.103	31.621	1.00 74.65	AP2
MOTA	3327	CD1	ILE	10	6.486	48.042	31.950	1.00 74.86	AP2 AP2
MOTA	3328	C	ILE	10	11.024	47.697	32.203	1.00 75.44	AP2
MOTA	3329	0	ILE	10	11.367	46.515	32.216	1.00 74.81	AP2
MOTA	3330	N	ILE	11	11.831	48.689	31.836	1.00 76.08	AP2
MOTA	3331	CA	ILE	11	13.208	48.459	31.408	1.00 77.08	AP2
MOTA	3332	CB	ILE	11	13.918	49.787	31.105	1.00 76.69	AP2
ATOM	3333	CG2	ILE	11	15.360	49.522	30.722	1.00 76.30	AP2
ATOM	3334	CG1	ILE	11	13.187	50.514	29.974	1.00 76.78	AP2
ATOM	3335	CD1	ILE	11	13.840	51.819	29.527	1.00 76.66	AP2
ATOM	3336	C	ILE	11	14.039	47.696	32.431	1.00 78.04	AP2
ATOM	3337	0	ILE	11	14.696	46.706	32.102	1.00 77.63	AP2
ATOM	3338	N	VAL	12	14.009	48.172	33.672	1.00 79.25	AP2
ATOM	3339	CA	VAL	12	14.761	47.547	34.755	1.00 80.48	AP2
ATOM	3340	CB	VAL	12	14.604	48.343	36.088	1.00 80.56	AP2
ATOM ATOM	3341		VAL	12	15.410	47.676	37.191	1.00 80.75	· AP2
ATOM	3342		VAL	12	15.063	49.779	35.899	1.00 80.30	.AP2
ATOM	33 <b>43</b> 3344	C	VAL	12	14.298	46.116	34.989	1.00 81.20	AP2
ATOM	3345	0	VAL	12	15.101	45.194	35.041	1.00 81.20	AP2
ATOM	3346	N CA	ASP	13	12.992	45.942	35.121	1.00 82.40	AP2
ATOM	3347	CB	ASP	13	12.402	44.634	35.375	1.00 83.84	AP2
ATOM	3348	CG	asp asp	13	10.901	44.804	35.657	1.00 84.55	AP2
ATOM	3349	OD1		13	10.618	45.767	36.829	1.00 85.50	AP2
ATOM	3350	OD2		13 13	11.513	46.577	37.182	1.00 85.54	AP2
ATOM	3351	C	ASP	13	9.491	45.726	37.386	1.00 85.79	AP2
ATOM	3352	o	ASP	13	12.627	43.600	34.256	1.00 84.60	AP2
ATOM	3353	И	ARG	14	12.466	42.395	34.485	1.00 84.91	AP2
ATOM	3354	CA	ARG	14	12.993		33.056	1.00 85.13	AP2
ATOM	3355	CB	ARG	14	13.252 12.667	43.158	31.915	1.00 85.53	AP2
			- Art	±-#	12.00/	43.725	30.602	1.00 85.39	AP2

MOTA	3356	CG	ARG	14	11.133	43.788	30.506	1.00 85.43	202
MOTA	3357	CD	ARG	14	10.493	42.407	30.616	1.00 85.43	AP2 AP2
ATOM	3358	NE	ARG	14	11.253	41.397	29.883	1.00 85.32	AP2
MOTA	3359	cz	ARG	14	10.950	40.102	29.862	1.00 85.25	
ATOM	3360	NH1	ARG	14	9.894	39.663	30.536	1.00 85.24	AP2
ATOM	3361	NH2	ARG	14	11.707	39.246	29.182	1.00 84.65	AP2
MOTA	3362	C	ARG	14	14.760	42.939	31.717	1.00 85.76	AP2
MOTA	3363	0	ARG	14	15.315	41.907	32.112	1.00 85.85	AP2
MOTA	3364	N	LEU	15	15.405	43.929	31.106	1.00 85.73	AP2
ATOM	3365	CA	LEU	15	16.828	43.896	30.831	1.00 86.03	AP2
ATOM	3366	CB	LEU	15	17.192	45.082	29.947	1.00 85.82	AP2
ATOM	3367	CG	LEU	15	16.136	45.523	28.925	1.00 85.68	AP2
ATOM	3368	CD1	LEU	15	16.630	46.758	28.206	1.00 85.55	AP2
ATOM	3369	CD2	LEU	15	15.843	44.414	27.933	1.00 85.29	AP2
ATOM	3370	С	LEU	15	17.686	43.935	32.096	1.00 86.63	AP2
ATOM	3371	0	LEU	15	18.914	43.909	32.005	1.00 86.53	AP2
ATOM	3372	N	GLY	16	17.045	44.012	33.264	1.00 87.36	AP2
ATOM	3373	CA	GLY	16	17.775	44.064	34.527	1.00 87.36	AP2
ATOM	3374	C	GLY	16	19.053	44.883	34.456		AP2
ATOM	3375	0	GLY	16	20.143	44.321	34.326	1.00 89.59	AP2
ATOM	3376	N	VAL	17	18.928	46.207	34.553	1.00 89.42	AP2
ATOM	3377	CA	VAL	17	20.092	47.092	34.452	1.00 90.59	AP2
MOTA	3378	CB	VAL	17	20.148	47.718	33.034	1.00 91.73	AP2
ATOM	3379		VAL	17	20.461	46.641		1.00 91.33	AP2
ATOM	3380		VAL	17	18.816	48.361	32.006	1.00 91.06	AP2
ATOM	3381	C	VAL	17	20.228	48.205	32.700 35.521	1.00 91.16	AP2
ATOM	3382	o	VAL	17	20.108	49.412		1.00 92.74	AP2
ATOM	3383	N	ASP	18	20.496	47.780	35.233 36.755	1.00 92.96	AP2
ATOM	3384	CA	ASP	18	20.682	48.690		1.00 93.61	AP2
ATOM	3385	СВ	ASP	18	21.912	49.587	37.887	1.00 94.45	AP2
ATOM	3386	CG	ASP	18	23.091	49.238	37.648 38.562	1.00 94.58	AP2
ATOM	3387		ASP	18	23.038	48.187		1.00 94.83	AP2
ATOM	3388		ASP	18	24.074		39.248	1.00 94.73	AP2
ATOM	3389	c	ASP	18	19.486	50.017 49.575	38.586	1.00 94.69	AP2
ATOM	3390	ō	ASP	18	18.648	49.373	38.233	1.00 94.87	AP2
ATOM	3391	N	GLU	19	19.428		39.072	1.00 95.08	AP2
ATOM	3392	CA	GLU	19	18.406	50.725	37.569	1.00 95.17	AP2
MOTA	3393	СВ	GLU	19	17.856	51.745	37.786	1.00 95.47	AP2
ATOM	3394	CG	GLU	19		51.675	39.219	1.00 95.60	AP2
ATOM	3395	CD	GLU	19	16.350	51.546	39.320	1.00 96.31	AP2
ATOM	3396		GLU	19	15.637	52.864	39.091	1.00 96.93	AP2
ATOM	3397		GLU	19	16.190	53.720	38.362	1.00 97.29	AP2
ATOM	3398	C	GLU	19	14.518	53.040	39.629	1.00 97.32	. AP2
MOTA	3399	ŏ	GLU	19	19.290	52.971	37.638	1.00 95.49	AP2
ATOM	3400	N	ALA	20	20.496	52.819	37.420	1.00 95.65	AP2
ATOM	3401	CA	ALA	20	18.725	54.168	37.753	1.00 95.26	AP2
ATOM	3402	CB	ALA		19.529	55.383	37.627	1.00 95.13	AP2
ATOM	3403	C	ALA	20	20.298	55.638	38.919	1.00 94.92	AP2
ATOM	3404	0	ALA	20	20.503	55.217	36.464	1.00 94.92	AP2
ATOM	3405	И	ASP	20	21.551	55.865	36.407	1.00 94.78	AP2
ATOM	3406	CA	ASP	21	20.133	54.333	35.542	1.00 94.78	AP2
ATOM	3407	CB	ASP	21	20.946	54.030	34.376	1.00 94.36	AP2
ATOM	3407	CG	ASP	21	21.514	52.619	34.503	1.00 94.73	AP2
ATOM	3409			21	22.692	52.402	33.603	1.00 95.30	AP2
ATOM	3410	OD1		21	23.821	52.771	34.000	1.00 95.81	AP2
ATOM	3411	OD2 C		21	22.486	51.887	32.487	1.00 95.82	AP2
ATOM			ASP	21	20.055	54.120	33.141	1.00 93.80	AP2
~10M	3412	0	ASP	21	20.425	53.706	32.037	1.00 93.62	AP2

MOTA	3413	N	VAL	22	18.877	54.690	33.354	1.00 92.94	AP2
MOTA	3414	CA	<b>YAL</b>	22	17.878	54.846	32.315	1.00 92.17	AP2
ATOM	3415	CB	VAL	22	16.523	54.320	32.855	1.00 92.24	AP2
MOTA	3416		VAL	22	15.484	54.285	31.758	1.00 92.28	AP2
MOTA	3417	CG2	VAL	22	16.722	52.933	33.472	1.00 91.98	AP2
MOTA	3418	C	VAL	22	17.741	56.308	31.843	1.00 91.45	AP2
ATOM	3419	0	VAL	22	16.783	56.992	32.194	1.00 91.67	AP2
ATOM	3420	И	LYS	23	18.693	56.787	31.044	1.00 90.56	AP2
ATOM	3421	CA	LYS	23	18.653	58.168	30.540	1.00 89.58	AP2
ATOM	3422	CB	LYS	23	20.078	58.706	30.378	1.00 89.69	AP2
ATOM	3423	C	LYS	23	17.899	58.274	29.211	1.00 88.74	AP2
ATOM	3424	0	LYS	23	17.965	57.369	28.388	1.00 88.66	AP2
ATOM	3425	N	LEU	24	17.193	59.381	28.996	1.00 87.78	AP2
ATOM	3426	CA	LEU	24	16.423	59.565	27.760	1.00 86.87	AP2
ATOM	3427	CB	LEU	24	15.801	60.976	27.689	1.00 86.41	AP2
ATOM	3428	CG	LEU	24	14.684	61.499	28.603	1.00 86.03	AP2
ATOM ATOM	3429		LEU	24	13.613	60.437	28.744	1.00 86.18	AP2
ATOM	3430 3431		LEU	24	15.231	61.899	29.956	1.00 85.71	AP2
ATOM	3432	С 0	LEU	24	17.255	59.347	26.497	1.00 86.36	AP2
ATOM	3433	И	LEU GLU	24 25	16.716	59.246	25.396	1.00 86.46	AP2
ATOM	3434	CA	GLU	25 25	18.570	59.285	26.663	1.00 85.76	AP2
ATOM	3435	CB	GLU	25	19.500 20.607	59.103	25.545	1.00 85.09	AP2
ATOM	3436	CG	GLU	25	21.204	60.138 60.175	25.649	1.00 85.64	AP2
ATOM	3437	CD	GLU	25	21.204	61.586	27.047	1.00 86.77	AP2
ATOM	3438		GLU	25	22.292	62.287	27.571	1.00 87.43	AP2
ATOM	3439	OE2	GLU	25	20.601	61.989	27.075 28.470	1.00 87.74 1.00 87.25	AP2
ATOM	3440	c	GLU	25	20.117	57.713	25.561	1.00 87.25	AP2
ATOM	3441	ō	GLU	25	20.876	57.349	24.662	1.00 84.14	AP2
ATOM	3442	N	ALA	26	19.798	56.957	26.607	1.00 83.18	AP2
MOTA	3443	CA	ALA	26	20.289	55.591	26.776	1.00 83.18	AP2 AP2
ATOM	3444	CB	ALA	26	19.927	55.065	28.174	1.00 81.62	AP2
ATOM	3445	С	ALA	26	19.676	54.684	25.708	1.00 81.46	AP2
ATOM	3446	0	ALA	26	18.469	54.418	25.724	1.00 81.38	AP2
ATOM	3447	N	SER	27	20.508	54.236	24.771	1.00 80.43	AP2
ATOM	3448	CA	SER	27	20.066	53.338	23.709	1.00 79.24	AP2
ATOM	3449	CB	SER	27	21.121	53.254	22.598	1.00 78.96	AP2
MOTA	3450	OG	SER	27	20.722	52.381	21.556	1.00 78.46	AP2
ATOM	3451	C	SER	27	19.856	51.956	24.321	1.00 78.58	AP2
MOTA	3452	0	SER	27	20.722	51.452	25.052	1.00 78.03	AP2
MOTA	3453	N	PHE	28	18.697	51.365	24.033	1.00 77.69	AP2
MOTA	3454	CA	PHE	28	18.364	50.046	24.537	1.00 77.23	· AP2
MOTA	3455	CB	PHE	28	17.005	49.606	24.002	1.00 77.11	, AP2
ATOM	3456	CG	PHE	28	15.874	50.490	24.413	1.00 76.99	AP2
MOTA	3457		PHE	28	15.477	50.556	25.750	1.00 76.84	AP2
ATOM	3458		PHE	28	15.194	51.248	23.466	1.00 76.77	AP2
ATOM	3459		PHE	28	14.422	51.357	26.137	1.00 76.38	AP2
ATOM	3460		PHE	28	14.136	52.056	23.835	1.00 76.78	AP2
ATOM ATOM	3461 3462	CZ	PHE	28	13.747	52.112	25.177	1.00 77.00	AP2
ATOM	3462	C	PHE	28	19.412	49.034	24.082	1.00 77.03	AP2
ATOM	3464	O N	PHE	28	19.960	48.275	24.880	1.00 76.80	AP2
ATOM	3465	CA.	LYS	29	19.683	49.039	22.785	1.00 76.69	AP2
MOTA	3466		LYS	29	20.625	48.109	22.197	1.00 76.65	AP2
ATOM	3467	CB CG	LYS	29	20.549	48.208	20.671	1.00 77.14	AP2
ATOM	3468	CD	LYS	29 20	19.127	48.454	20.149	1.00 77.87	AP2
ATOM	3469	CE	LYS LYS	29	18.817	47.607	18.923	1.09 78.22	AP2
71011	3403	CE	TI2	29	19.009	46.118	19.223	1.00 77.99	AP2

MOTA	3470	NZ	LYS	29	18.729	45.262	18.028			
ATOM	3471	C	LYS	29	22.055	48.331	22.661	1.00 7		
ATOM	3472	0	LYS	29	22.691	47.426	23.204	1.00 7		
ATOM	3473	N	GLU	30	22.555	49.544	22.465	1.00 7		
ATOM	3474	CA	GLU	30	23.925	49.864	22.465	1.00 7		
ATOM	3475	CB	GLU	30	24.388	51.081	22.042	1.00 7		
ATOM	3476	CG	GLU	30	24.388	50.883	20.545	1.00 7		
ATOM	3477	CD	GLU	30	24.656	52.184	19.800		6.33 AP	
ATOM	3478	OE1	. GLU	30	23.737	53.042	19.722		7.36 AP	
ATOM	3479	OE2	GLU	30	25.796	52.355	19.305	1.00 7		
ATOM	3480	C	GLU	30	24.256	50.089	24.301	1.00 7		
ATOM	3481	0	GLU	30	25.149	49.438	24.847	1.00 7		
ATOM	3482	N	ASP	31	23.549	50.996	24.953	1.00 7		
ATOM	3483	CA	ASP	31	23.873	51.311	26.335	1.00 7		
ATOM	3484	CB	ASP	31	23.524	52.781	26.580	1.00 7		
ATOM	3485	CG	ASP	31	24.270	53.725	25.619	1.00 7		
ATOM	3486	OD1	ASP	31	25.514	53.605	25.518	1.00 7		
ATOM	3487	OD2	ASP	31	23.632	54.585	24.965	1.00 7	:	
ATOM	3488	C	ASP	31	23.284	50.417	27.429	1.00 7		
ATOM	3489	0	ASP	31	23.823	50.337	28.536	1.00 6		
ATOM	3490	N	LEU	32	22.205	49.711	27.110	1.00 6		
ATOM	3491	CA	LEU	32	21.541	48.861	28.089		_	
ATOM	3492	CB	LEU	32	20.073	49.255	28.110	1.00 6		
ATOM	3493	CG	LEU	32	19.920	50.701	28.569	1.00 68		
ATOM	3494		LEU	32	18.472	51.131	28.462	1.00 69		
ATOM	3495		LEU	32	20.422	50.809	30.012	1.00 6		
ATOM	3496	C	LEU	32	21.686	47.323	28.021	1.00 66		
ATOM	3497	0	LEU	32	21.176		28.894	1.00 66		
ATOM	3498	N	GLY	33	22.373	46.811	27.003	1.00 65		
ATOM	3499	CA	GLY	33	22.581	45.370	26.884	1.00 63		
ATOM	3500	C	GLY	33	21.416	44.529	26.372	1.00 62		
ATOM	3501	0	GLY	33	21.169	43.428	26.874	1.00 62		
ATOM	3502	N	ALA	34 .	20.704	45.039	25.370	1.00 60		
ATOM	3503	CA	ALA	34	19.556	44.331	24.810	1.00 58		
ATOM	3504	CB	ALA	34	18.316	45.248	24.802	1.00 58		
ATOM	3505	C	ALA	34	19.805	43.797	23.407	1.00 56		
ATOM	3506	0	ALA	34	20.259	44.534	22.516	1.00 56		
ATOM	3507	N	ASP	35	19.526	42.507	23.225	1.00 54		
ATOM	3508	CA	ASP	35	19.663	41.882	21.910	1.00 52		
ATOM	3509	CB	ASP	35	19.991	40.383	22.019	1.00 51		
ATOM	3510	CG	ASP	35	18.982	39.589	22.864	1.00 50		
ATOM ATOM	3511		ASP	35	17.860	40.067	23.129	1.00 48		
ATOM	3512 3513		ASP	35	19.338	38.455		1.00 48	.62 AP2	
ATOM	3514	C	ASP	35	18.324	42.080	21.226	1.00 52		
ATOM	3515	0	ASP	35	17.462	42.783	21.770	1.00 52	.08 AP2	
ATOM	3516	CA	PAN	36	16.850	41.659	19.373	1.00 50		
ATOM		N	PAN	36	18.121	41.475	20.056	1.00 51		
ATOM	3517 3518	C	PAN	36	15.682	41.035	20.163	1.00 49	.09 AP2	!
ATOM	3518	0	PAN	36	14.624	41.642	20.258	1.00 47	.77 AP2	!
ATOM	3520	05 P6	PAN PAN	36	15.669	41.227	17.265	1.00 54	.25 AP2	
ATOM	3521			36	15.526	42,266	16.074	1.00 55	.70 AP2	:
ATOM	3521 3522	07 08	PAN	36	15.304	41.457	14.765	1.00 55		
ATOM	3523	09	PAN	36	16.936	43.007	15.954	1.00 55	.85 AP2	
ATOM	3524	CB	PAN	36	14.356	43.189	16.312	1.00 55		
ATOM	352 <b>4</b> 3525	N	PAN LEU	36	16.941	41.113	17.950	1.00 51		;
ATOM	3525 3526		LEU	37	15.865	39.849	20.737	1.00 48		:
	3320	٠,	neu	37	14.782	39.240	21.505	1.00 47	.87 AP2	:

ATOM	3527	CB	LEU	37	15.158	37.825	21.961	1.00 47.41	AP2
ATOM	3528	CG .		37	14.000	37.054	22.630	1.00 49.24	AP2
MOTA	3529	CD1		37	12.869	36.789	21.613	1.00 48.71	AP2
MOTA	3530	CD2		37	14.491	35.718	23.189	1.00 49.58	AP2
ATOM	3531	C	LEU	37	14.382	40.114	22.731	1.00 47.82	AP2
ATOM	3532	0	LEU	37	13.201	40.221	23.046	1.00 46.87	AP2
MOTA	3533	И	ASP	38	15.349	40.772	23.388	1.00 47.86	AP2
MOTA	3534	CA	ASP	38	15.015	41.602	24.551	1.00 47.84	AP2
ATOM	3535	CB	ASP	38	16.264	42.164	25.278	1.00 47.82	AP2
MOTA	3536	CG	ASP	38	17.157	41.078	25.909	1.00 47.77	AP2
MOTA	3537	OD1	ASP	38	18.384	41.221	25.817	1.00 47.55	AP2
ATOM	3538	OD2	ASP	38	16.663	40.095	26.506	1.00 48.56	AP2
MOTA	3539	C	ASP	38	14.176	42.767	24.072	1.00 47.53	AP2
ATOM	3540	0	ASP	38	13.221	43.171	24.728	1.00 47.07	AP2
ATOM	3541	N	VAL	39	14.505	43.295	22.905	1.00 47.99	AP2
ATOM	3542	CA	VAL	39	13.747	44.441	22.426	1.00 47.95	AP2
ATOM	3543	CB	VAL	39	14.466	45.138	21.301	1.00 47.96	AP2
ATOM	3544	CG1		39	14.203	44.460	19.969	1.00 49.07	AP2
ATOM	3545	CG2	VAL	39	14.002	46.543	21.270	1.00 49.98	AP2
ATOM	3546	С	VAL	39	12.291	44.172	22.034	1.00 47.86	AP2
MOTA	3547	0	VAL	39	11.438	45.056	22.217	1.00 47.51	AP2
ATOM	3548	N	VAL	40	11.976	42.981	21.505	1.00 47.55	AP2
ATOM	3549	CA	VAL	40	10.564	42.723	21.185	1.00 48.42	AP2
ATOM	3550	CB	VAL	40	10.296	41.526	20.144	1.00 47.99	AP2
ATOM	3551		VAL	40	11.559	40.997	19.585	1.00 48.02	AP2
ATOM	3552		VAL	40	9.484	40.438	20.758	1.00 48.83	AP2
ATOM	3553	C	VAL	40	9.766	42.494	22.480		AP2
ATOM	3554	ō	VAL	40	8.618	42.879	22.549	1.00 47.57	AP2
ATOM	3555	N	GLU	41	10.370	41.886	23.502	1.00 49.18	AP2
ATOM	3556	CA	GLU	41	9.643	41.685	24.753	1.00 50.93	AP2
ATOM	3557	CB	GLU	41	10.387	40.718	25.673	1.00 53.93	AP2
ATOM	3558	CG	GLU	41	10.074	39.232	25.400	1.00 56.63	
ATOM	3559	CD	GLU	41	10.552	38.329			AP2
ATOM	3560		GLU	41	11.776	38.066	26.536	1.00 58.01 1.00 59.21	AP2
ATOM	3561	OE2		41			26.609		AP2
ATOM	3562	C	GLU	41	9.704	37.902	27.366	1.00 59.16	AP2
					9.440	43.020	25.451	1.00 50.42	AP2
ATOM	3563	0	GLU	41	8.452	43.233	26.134	1.00 49.86	AP2
ATOM	3564	N	LEU	42	10.393	43.923	25.248	1.00 50.66	AP2
ATOM	3565	CA	LEU	42	10.331	45.247	25.822	1.00 50.65	AP2
ATOM	3566	CB	LEU	42	11.630	45.984	25.529	1.00 51.48	AP2
ATOM	3567	CG	LEU	42	11.958	47.238	26.337	1.00 52.85	AP2
ATOM	3568		LEU	42	11.999	46.858	27.818	1.00 53.64	· AP2
ATOM	3569		LEU	42	13.327	47.821	25.899	1.00 52.34	AP2
MOTA	3570	C	LEU	42	9.143	45.946	25.167	1.00 50.78	AP2
ATOM	3571	0	LEU	42	8.256	46.454	25.860	1.00 50.87	AP2
ATOM	3572	N	VAL	43	9.109	45.933	23.839	1.00 50.50	AP2
ATOM	3573	CA	VAL	43	8.026	46.554	23.081	1.00 51.44	AP2
ATOM	3574	CB	VAL	43	8.222	46.359	21.529	1.00 50.86	AP2
ATOM	3575		VAL	43	6.963	46.746	20.762	1.00 50.60	AP2
ATOM	3576	CG2		43	9.376	47.197	21.041	1.00 50.67	AP2
ATOM	3577	C	VAL	43	6.679	45.964	23.480	1.00 52.40	AP2
MOTA	3578	0	VAL	43	5.695	46.665	23.618	1.00 51.57	AP2
ATOM	3579	N	MET	44	6.633	44.656	23.658	1.00 54.33	AP2
ATOM	3580	CA	MET	44	5.383	44.020	24.030	1.00 56.33	AP2
ATOM	3581	CB	MET	44	5.557	42.509	24.002	1.00 56.08	AP2
MOTA	3582	CG	MET	44	6.120	42.014	22.700	1.00 57.30	AP2
ATOM	3583	SD	MET	44	5.978	40.248	22.480	1.00 57.38	AP2
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MOTA	3584	CE	MET	44	4.348	40.338	21.654	1.00 57.15	AP2
MOTA	3585	С	MET	44	4.916	44.501	25.414	1.00 57.88	AP2
ATOM	3586	0	MET	44	3.734	44.764	25.619	1.00 57.09	AP2
ATOM	3587	N	GLU	45	5.863	44.646	26.341	1.00 59.93	AP2
ATOM	3588	CA	GLU	45	5.554	45.105	27.691	1.00 62.06	AP2
ATOM	3589	CB	GLU	45	6.834	45.156	28.544	1.00 63.72	AP2
ATOM	3590	CG	GLU	45	6.613	44.808	30.038	1.00 67.19	
ATOM	3591	CD	.GLU	45	6.406	43.296	30.299	1.00 69.02	AP2 AP2
MOTA	3592	OE1	GLU	45	5.445	42.704	29.729	1.00 69.48	AP2
ATOM	3593	OE2	GLU	45	7.212	42.701	31.074	1.00 69.81	AP2
ATOM	3594	C	GLU	45	4.927	46.491	27.580	1.00 62.29	AP2
ATOM	3595	0	GLU	45	3.927	46.777	28.232	1.00 62.46	AP2
ATOM	3596	N	LEU	46	5.508	47.338	26.730	1.00 62.52	AP2
ATOM	3597	CA	LEU	46	4.998	48.686	26.514	1.00 62.72	AP2
ATOM	3598	CB	LEU	46	5.938	49.485	25.595	1.00 62.51	AP2
MOTA	3599	CG	LEU	46	7.442	49.583	25.906	1.00 62.73	AP2
ATOM	3600		LEU	46	8.093	50.528	24.900	1.00 61.98	AP2
ATOM	3601		LEU	46	7.673	50.082	27.318	1.00 62.24	AP2
ATOM	3602	C	LEU	46	3.604	48.629	25.884	1.00 63.09	AP2
MOTA	3603	0	LEU	46	2.758	49.481	26.150	1.00 62.76	AP2
ATOM	3604	И	GLU	47	3.373	47.617	25.050	1.00 63.87	AP2
ATOM	3605	CA	GLU	47	2.090	47.440	24.372	1.00 64.51	AP2
ATOM	3606	CB	GLU	47	2.157	46.295	23.344	1.00 64.64	AP2
ATOM	3607	CG	GLU	47	2.460	46.416	21.850	1.00 20.00	AP2
MOTA	3608	CD	GLU	47	2.451	45.221	20.924	1.00 20.00	AP2
ATOM	3609	OE1	GLU	47	2.262	44.023	21.080	1.00 20.00	AP2
ATOM	3610	OE2	GLU	47	2.447	45.762	19.820	1.00 20.00	AP2
MOTA	3611	C	GLU	47	0.990	47.250	25.411	1.00 64.90	AP2
MOTA	3612	0	GLU	47	-0.092	47.818	25.292	1.00 64.70	AP2
ATOM	3613	И	ASP	48	1.282	46.458	26.431	1.00 65.21	AP2
ATOM	3614	CA	ASP	48	0.311	46.171	27.460	1.00 66.10	AP2
ATOM	3615	CB	ASP	48	0.675	44.868	28.155	1.00 66.99	AP2
ATOM	3616	CG	ASP	48	0.739	43.704	27.175	1.00 68.14	AP2
ATOM	3617	OD1	ASP	48	-0.039	43.720	26.181	1.00 68.23	AP2
ATOM	3618	OD2	ASP	48	1.561	42.782	27.394	1.00 68.71	AP2
ATOM	3619	C	ASP	48	0.198	47.284	28.451	1.00 66.30	AP2
ATOM	3620	0	ASP	48	-0.862	47.863	28.609	1.00 66.33	AP2
ATOM	3621	N	GLU	49	1.310	47.593	29.094	1.00 66.84	AP2
ATOM	3622	CA	GLU	49	1.390	48.652	30.085	1.00 67.24	AP2
ATOM	3623	CB	GLU	49	2.852	48.913	30.425	1.00 68.55	AP2
ATOM	3624	CG	GLU	49	3.081	49.967	31.498	1.00 70.53	AP2
ATOM	3625	æ	GLU	49	2.745	49.446	32.885	1.00 71.90	· AP2
ATOM	3626		GLU	49	3.012	48.237	33.122	1.00 72.29	AP2
ATOM	3627	OE2	GLU	49	2.234	50.237	33.725	1.00 72.12	AP2
ATOM	3628	C	GLU	49	0.769	49.977	29.678	1.00 67.07	AP2
ATOM	3629	0	GLU	49	0.421	50.77B	30.542	1.00 67.58	AP2
ATOM	3630	И	PHE	50	0.636	50.235	28.381	1.00 66.27	AP2
ATOM	3631	CA	PHE	50	0.084	51.515	27.953	1.00 65.90	AP2
MOTA	3632	CB	PHE	50	1.183	52.350	27.295	1.00 65.47	AP2
ATOM	3633	CG	PHE	50	2.157	52.959	28.271	1.00 65.11	AP2
MOTA	3634		PHE	50	1.881	54.185	28.882	1.00 64.59	AP2
ATOM	3635		PHE	50	3.343	52.306	28.595	1.00 64.67	AP2
MOTA	3636		PHE	50	2.767	54.745	29.791	1.00 64.20	AP2
MOTA	3637		PHE	50	4.237	52.870	29.512	1.00 64.53	AP2
MOTA	3638	CZ	PHE	50	3.947	54.086	30.105	1.00 64.19	AP2
ATOM	3639	C	PHE	50	-1.081	51.349	27.001	1.00 66.10	AP2
ATOM	3640	0	PHE	50	-1.685	52.316	26.534	1.00 66.26	AP2
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ATOM	3641	N	ASP	51	-1.402	50.103	26.713	1.00 66.29	AP2
ATOM	3642	CA	ASP	51	-2.487	49.794	25.809	1.00 66.30	AP2
ATOM	3643	CB	ASP	51	-3.818	50.201	26.427	1.00 67.89	AP2
ATOM	3644	CG	ASP	51	-4.959	49.359	25.908	1.00 68.99	AP2
ATOM	3645		ASP	51	-4.916	48.131	26.144	1.00 69.70	AP2
ATOM	3646		ASP	51	-5.881	49.909	25.252	1.00 70.00	AP2
ATOM	3647	C	ASP	51	-2.360	50.406	24.412	1.00 65.79	AP2
ATOM	3648	0	ASP	51	-3.275	51.088	23.938	1.00 65.17	AP2
ATOM	3649	N	MET	52	-1.215	50.155	23.766	1.00 65.48	AP2
ATOM	3650	CA	MET	52	-0.951	50.606	22.400	1.00 65.07	AP2
MOTA MOTA	3651	CB	MET	52	0.032	51.782	22.387	1.00 65.16	AP2
ATOM	3652	CG	MET	52	1.226	51.618	23.307	1.00 65.99	AP2
ATOM	3653 3654	SD CE	MET	52	2.324	53.078	23.241	1.00 66.46	AP2
ATOM	3655	C	MET	52 53	1.109	54.407	23.535	1.00 66.61	AP2
ATOM	3656	0	MET MET	52 52	-0.413	49.420	21.577	1.00 64.74	AP2
ATOM	3657	N	GLU	52 53	-0.176	48.338	22.124	1.00 64.50	AP2
ATOM	3658	CA	GLU	53 53	-0.233	49.621	20.270	1.00 64.21	AP2
ATOM	3659	CB	GLU	53 53	0.240	48.561	19.383	1.00 63.66	AP2
ATOM	3660	CG	GLU	53 53	-0.438	48.681	18.021	1.00 65.03	AP2
ATOM	3661	œ	GLU	53	-1.947 -2.502	48.589	18.025	1.00 67.15	AP2
ATOM	3662	OE1		53	-1.772	48.558	16.606	1.00 68.94	AP2
ATOM	3663	OE2		53	-3.651	49.026 48.077	15.698	1.00 69.75	AP2
ATOM	3664	C	GLU	53	1.370	49.384	16.391	1.00 69.40	AP2
ATOM	3665	o	GLU	53	1.138	50.531	18.714	1.00 62.69	AP2
ATOM	3666	N	ILE	54	2.577	48.811	18.242 18.703	1.00 62.84	AP2
ATOM	3667	CA	ILE	54	3.777	49.462	18.159	1.00 60.28	AP2
ATOM	3668	CB	ILE	54	4.722	49.262	19.364	1.00 58.22	AP2
ATOM	3669	CG2	ILE	54	6.177	49.590	18.924	1.00 58.17	AP2
ATOM	3670		ILE	54	4.302	50.170	20.534	1.00 58.30 1.00 58.24	AP2
ATOM	3671		ILE	54	5.286	50.195	21.696	1.00 58.24 1.00 57.29	AP2
ATOM	3672	C	ILE	54	4.147	48.405	17.101	1.00 56.70	AP2
ATOM	3673	0	ILE	54	4.502	47.272	17.413	1.00 56.48	AP2 AP2
ATOM	3674	N	SER	55	4.053	48.804	15.842	1.00 54.79	AP2
ATOM	3675	CA	SER	55	4.389	47.968	14.704	1.00 52.52	AP2
ATOM	3676	CB	SER	55	4.019	48.705	13.434	1.00 52.24	AP2
ATOM	3677	OG	SER	55	4.831	49.876	13.340	1.00 50.08	AP2
MOTA	3678	C	SER	55	5.896	47.742	14.651	1.00 52.02	AP2
ATOM	3679	0	SER	55	6.653	48.361	15.400	1.00 50.47	AP2
MOTA	3680	N	ASP	56	6.316	46.870	13.734	1.00 51.52	AP2
ATOM	3681	CA	ASP	56	7.734	46.611	13.526	1.00 51.65	AP2
MOTA	3682	CB	ASP	56	7.955	45.432	12.561	1.00 51.39	AP2
ATOM	3683	CG	ASP	56	7.585	44.072	13.173	1.00 51.27	AP2
ATOM	3684	OD1		5 <b>6</b>	7.718	43.888	14.397	1.00 50.03	AP2
ATOM	3685	OD2		56		43.173	12.405	1.00 51.66	AP2
ATOM	3686	C	ASP	56	8.335	47.897	12.926	1.00 51.59	AP2
ATOM	3687	0	ASP	56	9.470	48.254	13.208	1.00 50.53	AP2
ATOM	3688	N	GLU	57	7.549	48.608	12.127	1.00 52.32	AP2
ATOM	3689	CA	GLU	57	8.036	49.834	11.523	1.00 54.22	AP2
ATOM ATOM	3690	CB	GLU	57	6.990	50.414	10.550	1.00 55.66	AP2
ATOM	3691	CG	GLU	57	7.397	51.743	9.901	1.00 57.60	AP2
ATOM	3692 3693	CD	GLU	57 	6.659	52.010	8.598	1.00 59.28	AP2
ATOM	3694	OE1		57	5.490	52.440	8.637	1.00 59.81	AP2
ATOM			GLU	57 5 <b>7</b>	7.244	51.779	7.516	1.00 60.85	AP2
ATOM	3695 3696	C	GLU	57 57	8.353	50.849	12.606	1.00 54.45	AP2
ATOM	3696 3697	0	GLU	57 50	9.366	51.522	12.541	1.00 54.39	AP2
ALON	3697	N	ASP	58	7.465	50.933	13.596	1.00 55.48	AP2

ATOM	3698	CA	ASP	58	7.567	51.848	14.737	1 00 55 00	
MOŢA	3699	CB	ASP	58	6.199	51.991	15.409	1.00 55.90 1.00 56.10	AP2
ATOM	3700	CG	ASP	58	5.191	52.738	14.539	1.00 56.10	AP2
ATOM	3701		ASP	58	5.622	53.558	13.695	1.00 57.78	AP2
ATOM	3702	OD2		58	3.968	52.527	14.712	1.00 57.78	AP2
ATOM	3703	C	ASP	58	8.597	51.449	15.790	1.00 56.08	AP2
ATOM	3704	0	ASP	58	9.222	52.309	16.422	1.00 56.33	AP2
ATOM	3705	N	ALA	59	8.762	50.154	15.999	1.00 56.24	AP2 AP2
ATOM ATOM	3706	CA	ALA	59	9.727	49.677	16.970	1.00 57.11	AP2
ATOM	3707	CB	ALA	59	9.596	48.172	17.133	1.00 56.29	AP2
ATOM	3708	C	ALA	59	11.151	50.041	16.537	1.00 58.31	AP2
ATOM	3709 3710	о и	ALA	59	12.033	50.211	17.370	1.00 58.41	AP2
ATOM	3711		GLU	60	11.385	50.149	15.235	1.00 59.58	AP2
ATOM	3712	CB	GLU GLU	60	12.716	50.510	14.759	1.00 61.45	AP2
ATOM	3713	CG	GLU	60 60	12.863	50.206	13.261	1.00 62.21	AP2
ATOM	3714	æ	GLU	60	14.185	50.674	12.636	1.00 62.75	AP2
ATOM	3715	OE1		60	14.216 14.397	50.448	11.142	1.00 63.75	AP2
ATOM	3716	OE2		60	14.397	49.285	10.719	1.00 65.16	AP2
ATOM	3717	C	GLU	60	12.928	51.419	10.380	1.00 64.13	AP2
ATOM	3718	0	GLU	60	14.036	52.000 52.442	15.006	1.00 62.56	AP2
ATOM	3719	N	LYS	61	11.845	52.762	15.314	1.00 62.46	AP2
MOTA	3720	CA	LYS	61	11.887	54.200	14.886 15.086	1.00 63.87	AP2
ATOM	3721	CB	LYS	61	10.522	54.809	14.761	1.00 65.19	AP2
ATOM	3722	CG	LYS	61	10.507	56.330	14.791	1.00 66.28 1.00 67.81	AP2
ATOM	3723	CD	LYS	61	9.102	56.930	15.010	1.00 67.81	AP2
ATOM	3724	CE	LYS	61	9.225	58.430	15.426	1.00 69.32	AP2
ATOM	3725	NZ	LYS	61	7.943	59.126	15.786	1.00 68.93	AP2
ATOM	3726	C	LYS	61	12.289	54.577	16.510	1.00 65.76	AP2 AP2
ATOM	3727	0	LYS	61	12.885	55.619	16.719	1.00 66.25	AP2
ATOM	3728	N	ILE	62	11.979	53.744	17.499	1.00 66.49	AP2
ATOM	3729	CA	ILE	62	12.341	54.089	18.872	1.00 66.91	AP2
ATOM ATOM	3730 3731	CB	ILE	62	11.135	53.957	19.833	1.00 66.83	AP2
ATOM	3732	CG2	ILE	62	10.425	55.289	19.929	1.00 67.42	AP2
ATOM	3732	CG1 CD1		62	10.154	52.896	19.349	1.00 66.56	AP2
ATOM	3734	CDI	ILE	62	8.929	52.796	20.241	1.00 65.95	AP2
ATOM	3735	Ö	ILE	62	13.535	53.360	19.467	1.00 67.38	AP2
ATOM	3736	Ŋ	ALA	62 63	13.415	52.271	20.038	1.00 67.69	AP2
ATOM	3737	CA	ALA	63 63	14.691	54.010	19.360	1.00 68.00	AP2
ATOM	3738	CB	ALA	63	15.958	53.465	19.847	1.00 68.34	AP2
ATOM	3739	c	ALA	63	17.099 16.286	53.977	18.965	1.00 68.67	AP2
MOTA	3740	0	ALA	63	16.791	53.741 52.851	21.322	1.00 68.26	· AP2
MOTA	3741	N	THR	64	16.016	54.966	22.025	1.00 68.25	AP2
MOTA	3742	CA	THR	64	16.312	55.352	21.780 23.164	1.00 67.85 1.00 67.48	AP2
ATOM	3743	CB	THR	64	16.968	56.751	23.239	1.00 67.48	AP2
ATOM	3744	<b>0G1</b>	THR	64	16.115	57.709	22.594	1.00 67.62	AP2
ATOM	3745	CG2	THR	64	18.340	56.749	22.572	1.00 67.72	AP2
ATOM	3746	C	THR	64	15.098	55.379	24.092	1.00 67.12	AP2 AP2
ATOM	3747	0	THR	64	13.941	55.343	23.651	1.00 67.12	AP2
ATOM	3748	N	VAL	65	15.392	55.448	25.386	1.00 66.32	AP2
ATOM	3749	CA	VAL	65	14.378	55.500	26.414	1.00 65.55	AP2
ATOM	3750	CB	VAL	65	15.018	55.579	27.777	1.00 65.53	AP2
ATOM	3751	CG1		65	13.940	55.593	28.848	1.00 65.46	AP2
ATOM	3752	CG2		.65	15.967	54.392	27.959	1.00 65.23	AP2
ATOM	3753	C	VAL	65	13.534	56.731	26.180	1.00 65.33	AP2
ATOM	3754	0	VAL	_. 65	12.315	56.705	26.308	1.00 64.73	AP2

ATOM	3755	N	GLY	6 <b>6</b>	14.198	57.814	25.813	1.00 65.45	
ATOM	3756	CA	GLY	66	13.488	59.043	25.533	1.00 65.45	AP2
MOTA	3757	C	GLY	66	12.603	58.856	24.320	1.00 65.64	AP2
ATOM	3758	0	GLY	66	11.508	59.419	24.261	1.00 65.65	AP2
MOTA	3759	N	ASP	67	13.085	58.078	23.347	1.00 65.58	AP2
ATOM	3760	CA	ASP	67	12.322	57.797	22.139	1.00 65.56	AP2
ATOM	3761	CB	ASP	67	13.137	56.932	21.176	1.00 66.26	AP2
ATOM	3762	CG	ASP	67	14.045	57.744	20.277	1.00 66.73	AP2
ATOM	3763	OD1	ASP	67	14.975	57.140	19.697	1.00 66.67	AP2
ATOM	3764	OD2	ASP	67	13.822	58.972	20.141	1.00 67.11	AP2
ATOM	3765	C	ASP	67	11.076	57.037	22.548	1.00 65.28	AP2
ATOM	3766	0	ASP	<b>67</b> .	9.992	57.248	22.002	1.00 65.07	AP2 AP2
ATOM	3767	N	ALA	68	11.246	56.136	23.511	1.00 65.21	
ATOM	3768	CA	ALA	68	10.136	55.333	24.014	1.00 65.16	AP2 AP2
ATOM	3769	CB	ALA	68	10.649	54.312	25.014	1.00 64.87	AP2
ATOM	3770	C	ALA	68	9.122	56.259	24.670	1.00 65.09	AP2
ATOM	3771	0	ALA	68	7.935	56.235	24.355	1.00 64.84	AP2
ATOM	3772	N	VAL	69	9.611	57.096	25.570	1.00 65.44	AP2
ATOM	3773	CA	VAL	69	8.762	58.038	26.271	1.00 65.98	AP2
ATOM	3774	CB	VAL	69	9.615	58.912	27.239	1.00 66.24	AP2
ATOM	3775		VAL	69	8.723	59.905	27.975	1.00 66.37	AP2
MOTA	3776	CG2	VAL	69	10.340	58.011	28.258	1.00 66.23	AP2
ATOM	3777	C	VAL	69	8.010	58.911	25.261	1.00 66.16	AP2
ATOM	3778	0	VAL	69	6.786	59.030	25.314	1.00 66.01	AP2
ATOM	3779	N	ASN	70	8.738	59.491	24.318	1.00 66.66	AP2
MOTA	3780	CA	ASN	70	8.119	60.343	23.304	1.00 67.53	AP2
ATOM	3781	CB	ASN	70	9.173	60.910	22.360	1.00 67.86	AP2
ATOM	3782	CG	ASN	70	9.775	62.168	22.887	1.00 68.32	AP2
ATOM	3783		ASN	70	9.102	62.932	23.581	1.00 68.33	AP2
ATOM	3784		ASN	70	11.040	62.412	22.561	1.00 68.72	AP2
ATOM	3785	C	ASN	70	7.041	59.667	22.472	1.00 67.96	AP2
ATOM	3786	0	asn	70	6.031	60.300	22.118	1.00 67.43	AP2
ATOM	3787	N	TYR	71	7.275	58.395	22.141	1.00 68.35	AP2
ATOM	3788	CA	TYR	71	6.321	57.643	21.357	1.00 68.79	AP2
ATOM	3789	CB	TYR	71	6.846	56.259	21.032	1.00 68.30	AP2
ATOM	3790	CG	TYR	71	5.923	55.514	20.104	1.00 68.05	AP2
ATOM	3791	CD1	TYR	71	4.870	54.753	20.601	1.00 67.75	AP2
ATOM	3792	CE1	TYR	71	4.015	54.060	19.743	1.00 67.76	AP2
ATOM	3793	CD2	TYR	71	6.095	55.574	18.724	1.00 67.68	AP2
ATOM	3794	CE2	TYR	71	5.244	54.891	17.862	1.00 67.56	AP2
ATOM	3795	CZ	TYR	71	4.209	54.130	18.375	1.00 67.54	AP2
ATOM	3796	OH	TYR	71	3.398	53.405	17.526	1.00 67.12	· AP2
MOTA	3797	C	TYR	71	5.050	57.547	22.167	1.00 69.54	AP2
ATOM	3798	0	TYR	71	3.972	57.833	21.665	1.00 69.15	AP2
ATOM	3799	N	ILE	72	5.178	57.137	23.421	1.00 70.67	AP2
ATOM	3800	CA	ILE	72	4.019	57.064	24.291	1.00 72.16	AP2
ATOM	3801	CB	ILE	72	4.409	56.482	25.638	1.00 71.69	AP2
ATOM	3802	CG2		72	3.192	56.337	26.507	1.00 71.53	AP2
ATOM	3803	CG1		72	5.075	55.120	25.433	1.00 71.64	AP2
ATOM	3804	CD1		72	5.828	54.632	26.651	1.00 70.95	AP2
ATOM	3805	C	ILE	72	3.613	58.528	24.461	1.00 73.58	AP2
ATOM	3806	0	ILE	72	4.055	59.183	25.401	1.00 73.89	AP2
ATOM	3807	N	GLN	73	2.811	59.025	23.510	1.00 74.98	AP2
ATOM	3808	CA	GLN	73	2.308	60.418	23.421	1.00 75.56	AP2
ATOM	3809	CB	GLN	.73	3.282	61.415	24.068	1.00 76.72	AP2
ATOM	3810	CG	GLN	73	3.248	61.493	25.597	1.00 78.78	AP2
ATOM	3811	CD	GLN	_. 73	4.435	62.272	26.189	1.00 79.69	AP2

MOTA	3812	OE1	GLN	73	4.730	63.398	25.764	1.00 80.13	AP2
ATOM	3813	NE2	GLN	73	5.100	61.685	27.188	1.00 79.77	AP2 AP2
ATOM	3814	C	GLN	73	2.171	60.766	21.921	1.00 75.34	AP2 AP2
MOTA	3815	OT1	GLN	73	1.145	60.381	21.304	1.00 74.80	AP2
ATOM	3816	OT2	GLN	73	3.114	61.391	21.370	1.00 75.08	AP2
ATOM	3817	CB	ALA	1	1.800	-6.041	21.213	1.00 80.30	AP3
ATOM	3818	C	ALA	1	2.577	-6.903	23.453	1.00 80.06	AP3
MOTA	3819	0	ALA	1	2.622	-5.935	24.217	1.00 80.11	AP3
ATOM	3820	N	ALA	1	0.099	-6.809	22.864	1.00 80.88	AP3
ATOM	3821	CA	ALA	1	1.493	-7.021	22.374	1.00 80.41	AP3
ATOM	3822	И	ASP	2	3.439	-7.912	23.516	1.00 79.63	AP3
ATOM	3823	CA	ASP	2	4.556	-7.909	24.444	1.00 79.28	AP3
ATOM	3824	CB	ASP	2	4.998	-9.318	24.788	1.00 78.93	AP3
ATOM	3825	CG	ASP	2	6.087	-9.342	25.821	1.00 78.75	AP3
MOTA	3826		ASP	2	5.841	-8.839	26.940	1.00 78.53	AP3
ATOM	3827	OD2		2	7.181	-9.868	25.520	1.00 78.56	AP3
ATOM ATOM	3828	C	ASP	2	5.634	-7.256	23.609	1.00 79.40	AP3
ATOM	3829	0	ASP	2	6.715	-6.942	24.100	1.00 79.66	AP3
ATOM	3830	N	THR	3	5.337	-7.089	22.322	1.00 78.88	AP3
ATOM	3831 3832	CA	THR	3	6.260	-6.440	21.413	1.00 78.63	AP3
ATOM	3833	CB OG1	THR	3	5.832	-6.637	19.947	1.00 77.90	AP3
ATOM	3834	CG2	THR	3	6.193	-7.955	19.528	1.00 77.32	AP3
ATOM	3835	C	THR	3	6.513	-5.630	19.039	1.00 77.44	AP3
ATOM	3836	0	THR	3 3	6.239	-4.957	21.783	1.00 79.14	AP3
ATOM	3837	И	LEU	3 4	7.285	-4.310	21.858	1.00 79.19	AP3
ATOM	3838	CA	LEU	4	5.040	-4.435	22.035	1.00 79.46	AP3
ATOM	3839	CB	LEU	4	4.856 3.379	-3.039	22.419	1.00 79.70	AP3
ATOM	3840	CG	LEU	4	3.055	-2.702 -1.200	22.486	1.00 79.44	AP3
ATOM	3841	CD1	LEU	4	3.240	-1.299 -0.335	22.973	1.00 79.41	AP3
ATOM	3842			4	1.611	-1.253	21.815 23.493	1.00 78.99	AP3
ATOM	3843	C	LEU	4	5.458	-2.832	23.493	1.00 79.05 1.00 79.95	AP3
ATOM	3844	0	LEU	4	6.116	-1.832	24.040	1.00 79.95	AP3
ATOM	3845	N	GLU	5	5.220	-3.789	24.682	1.00 79.62	AP3
ATOM	3846	CA	GLU	5	5.744	-3.725	26.043	1.00 80.30	AP3
ATOM	3847	СВ	GLU	5	5.352	-4.988	26.828	1.00 81.23	AP3
ATOM	3848	CG	GLU	5	4.862	-4.727	28.256	1.00 83.74	AP3 AP3
ATOM	3849	CD	GLU	5	3.754	-3.667	28.302	1.00 84.88	
ATOM	3850	OE1	GLU	5	2.717	-3.846	27.619	1.00 85.02	AP3 AP3
ATOM	3851			· <b>5</b>	3.921	-2.649	29.016	1.00 85.43	AP3
ATOM	3852	C	GLU	5	7.267	-3.595	25.998	1.00 81.11	AP3
ATOM	3853	0	GLU	5	7.869	-2.915	26.835	1.00 81.30	, AP3
MOTA	3854	N	ARG	6	7.881	-4.248	25.011	1.00 80.60	AP3
ATOM	3855	CA	ARG	6	9.325	-4.221	24.843	1.00 79.96	'AP3
ATOM	3856	CB	ARG	6	9.816	-5.499	24.149	1.00 79.81	AP3
ATOM	3857	CG	ARG	6	9.847	-6.716	25.055	1.00 79.18	AP3
ATOM	3858	В	ARG	6	10.927	-7.684	24.616	1.00 79.45	AP3
ATOM	3859	NE	ARG	6	10.589	-8.357	23.372	1.00 78.96	AP3
MOTA	3860	CZ	ARG	6	11.448	-9.047	22.629	1.00 78.97	AP3
ATOM	3861		ARG	6	12.713	-9.163	22.991	1.00 79.03	AP3
MOTA	3862		ARG	6	11.038	-9.629	21.514	1.00 79.17	AP3
ATOM	3863	C	ARG	6	9.762	-2.999	24.058	1.00 79.85	AP3
ATOM	3864	0	ARG	6	10.894	-2.527	24.204	1.00 79.66	AP3
ATOM	3865	N	VAL	7	8.862	-2.491	23.225	1.00 79.59	AP3
ATOM	3866	CA	VAL	7	9.152	-1.308	22.439	1.00 79.61	AP3
ATOM	3867	CB	VAL	7	8.142	-1.136	21.275	1.00 79.79	AP3
ATOM	3868	CG1	VAL	7	7.714	0.317	21.147	1.00 79.88	AP3

ATOM	3869		2 VAL	7	8.779	-1.601	19.960	1.00 79.63	3.03
ATOM	3870	-	VAL	7	9.084	-0.107		1.00 79.59	AP3
ATOM	3871	_	VAL	7	9.918	0.788	-	1.00 79.69	AP3 AP3
ATOM ATOM	3872	-	THR	8	8.099	-0.104	24.246	1.00 79.81	AP3
ATOM	3873			8	7.924	1.002	25.177	1.00 80.35	AP3
ATOM	3874 3875		THR	8	6.535	0.924	25.869	1.00 80.28	AP3
ATOM	3876			8	5.510	1.227	24.908	1.00 80.23	AP3
ATOM	3877		-	8	6.440	1.913	27.020	1.00 80.18	AP3
ATOM	3878	_	THR	8	9.048	1.087	26.214	1.00 80.61	AP3
ATOM	3879		THR LYS	8 9	9.490	2.180	26.567	1.00 80.23	AP3
ATOM	3880		LYS	9	9.527	-0.061	26.683	1.00 80.99	AP3
ATOM	3881		LYS	9	10.610	-0.062	27.656	1.00 81.53	AP3
ATOM	3882		LYS	9	10.917 12.160	-1.493	28.130	1.00 81.32	AP3
ATOM	3883	CD	LYS	9	12.144	-1.594	29.023	1.00 81.21	AP3
MOTA	3884	CE	LYS	9	13.543	-2.839	29.918	1.00 81.53	AP3
ATOM	3885	NZ	LYS	9	14.162	-3.165 -2.051	30.484	1.00 81.08	AP3
MOTA	3886	C	LYS	9	11.860	0.579	31.270 27.041	1.00 80.56	AP3
ATOM	3887	0	LYS	9	12.609	1.287	27.715	1.00 81.86	AP3
ATOM	3888	N	ILE	10	12.075	0.334	25.753	1.00 82.11 1.00 81.96	AP3
MOTA	3889	CA	ILE	10	13.225	0.885	25.048	1.00 81.96	AP3
ATOM	3890	CB	ILE	10	13.390	0.203	23.654	1.00 81.82	AP3
ATOM	3891	CG2		10	14.375	0.966	22.795	1.00 81.28	AP3
ATOM	3892		ILE	10	13.783	-1.272	23.838	1.00 81.30	AP3
ATOM	3893	CD1		10	14.806	-1.554	24.964	1.00 81.09	AP3 AP3
ATOM	3894	C	ILE	10	13.093	2.401	24.871	1.00 82.11	AP3
ATOM ATOM	3895	0	ILE	10	14.082	3.136	24.999	1.00 81.77	AP3
ATOM	3896	N	ILE	11	11.867	2.849	24.589	1.00 82.41	AP3
ATOM	3897 3898	CA	ILE	11	11.562	4.262	24.368	1.00 82.78	AP3
ATOM	3899	CB	ILE	11	10.186	4.426	23.670	1.00 82.33	AP3
ATOM	3900		ILE ILE	11	9.797	5,896	23.575	1.00 82.07	AP3
ATOM	3901		ILE	11	10.255	3.827	22.270	1.00 82.32	AP3
ATOM	3902	C	ILE	11 11	8.945	3.876	21.506	1.00 82.44	AP3
ATOM	3903	Ö	ILE	11	11.568	5.098	25.644	1.00 83.30	AP3
ATOM	3904	N	VAL	12 .	11.935 11.164	6.269	25.620	1.00 83.45	AP3
ATOM	3905	CA	VAL	12	11.104	4.501	26.760	1.00 83.91	AP3
ATOM	3906	CB	VAL	12	10.158	5.227	28.019	1.00 84.43	AP3
MOTA	3907		VAL	12	10.373	4.540	29.031	1.00 84.31	AP3
MOTA	3908	CG2	VAL	12	8.724	5.070 4.811	30.435	1.00 84.17	AP3
ATOM	3909	C	VAL	12	12.520	5.340	28.623 28.619	1.00 84.03	AP3
MOTA	3910	0	VAL	12	12.701	5.944	29.678	1.00 84.94 1.00 85.35	AP3
MOTA	3911	N	ASP	13	13.513	4.783	27.936	1.00 85.34	AP3
ATOM	3912	CA	ASP	13	14.878	4.833	28.454	1.00 86.04	AP3
ATOM	3913	CB	ASP	13	15.334	3.420	28.853	1.00 86.48	AP3 AP3
ATOM	3914	CG	ASP	13	14.386	2.767	29.869	1.00 87.14	AP3
ATOM	3915	OD1		13	13.717	3.520	30.620	1.00 87.08	AP3
ATOM	3916	OD2		13	14.317	1.511	29.929	1.00 87.02	AP3
ATOM	3917	C	ASP	13	15.878	5.476	27.490	1.00 86.16	AP3
ATOM	3918	0	ASP	13	17.056	5.644	27.812		AP3
ATOM ATOM	3919		ARG	14	15.395	5.850	26.313	1.00 86.23	AP3
ATOM	3920		ARG	14	16.233	6.481	25.310	1.00 86.55	AP3
ATOM	3921 3922		ARG	14	16.109	5.733	23.987	1.00 86.57	AP3
ATOM			ARG	14	16.725	4.339	23.997	1.00 86.67	AP3
ATOM	3923 3924		ARG	14	18.206	4.391	23.645	1.00 86.53	AP3
ATOM	3925		ARG	14	19.027	5.031	24.669	1.00 86.50	AP3
	3343	-2	ARG	14	19.365	4.472	25.828	1.00 86.59	AP3

MOTA	3926	NH	1 ARG	14	18.960	3.245	26.142	• • • • • • •	
ATOM	3927		2 ARG	14	20.117	5.145		1.00 86.74	AP3
ATOM	3928		ARG	14	15.761	7.914	25.143	1.00 86.67	AP3
ATOM	3929	_	ARG	14	16.544	8.812	24.823	1.00 86.71 1.00 86.83	AP3
ATOM	3930		LEU	15	14.468	8.111	25.371	1.00 86.83	AP3
ATOM	3931		_	15	13.847	9.419	25.263	1.00 85.78	AP3
ATOM	3932			15	12.632	9.351	24.343	1.00 86.46	AP3
ATOM	3933			15	12.945	9.019	22.895	1.00 85.94	AP3
ATOM	3934		1 LEU	15	11.689	9.228	22.079	1.00 86.10	AP3
ATOM	3935		2 LEU	15	14.064	9.913	22.386	1.00 85.45	AP3 AP3
ATOM ATOM	3936	C	LEU	15	13.421	9.930	26.634	1.00 87.71	AP3
ATOM	3937 3938	0	LEU	15	13.111	11.111	26.798	1.00 87.66	AP3
ATOM	3939	N	GLY	16	13.401	9.028	27.609	1.00 88.38	AP3
ATOM	3940	CA		16	13.024	9.387	28.962	1.00 89.57	AP3
ATOM	3941	С 0	GLY	16	11.685	10.083	29.141	1.00 90.52	AP3
ATOM	3942	N	GLY VAL	16	11.634	11.185	29.686	1.00 90.64	AP3
ATOM	3943	CA	VAL	17 17	10.606	9.456	28.680	1.00 91.37	AP3
ATOM	3944	СВ	VAL	17	9.260	10.011	28.830	1.00 92.27	AP3
ATOM	3945	CG:		17	8.411	9.821	27.510	1.00 92.11	AP3
ATOM	3946		VAL	17	8.673	10.969	26.535	1.00 91.59	AP3
ATOM	3947	c	VAL	17	8.763	8.495	26.833	1.00 91.92	AP3
MOTA	3948	ō	VAL	17	8.617 9.327	9.272	30.025	1.00 93.10	AP3
MOTA	3949	N	ASP	18	7.302	8.596	30.778	1.00 93.19	AP3
ATOM	3950	CA	ASP	18	6.603	9.407 8.720	30.219	1.00 94.20	AP3
ATOM	3951	CB	ASP	18	5.262	9.404	31.325	1.00 95.26	AP3
MOTA	3952	CG	ASP	18	5.430	10.780	31.641 32.271	1.00 95.83	AP3
ATOM	3953	ODI	ASP	18	6.051	10.865	33.360	1.00 96.39	AP3
MOTA	3954	OD2	ASP	18	4.936	11.774	31.679	1.00 96.57	AP3
MOTA	3955	C	ASP	18	6.331	7.258	30.951	1.00 96.48 1.00 95.69	AP3
ATOM	3956	0	ASP	18	7.187	6.389	31.122	1.00 95.69	AP3
MOTA	3957	N	GLU	19	5.122	6.990	30.469	1.00 95.81	AP3
ATOM	3958	CA	GLU	19	4.741	5.654	30.025	1.00 95.73	AP3 AP3
ATOM	3959	CB	GLU	19	4.592	4.669	31.179	1.00 95.35	AP3
ATOM	3960	CG	GLU	19	4.271	3.268	30.674	1.00 94.53	AP3
ATOM	3961	CD	GLU	19	4.963	2.186	31.467	1.00 94.17	AP3
ATOM	3962		GLU	19	6.103	2.413	31.924	1.00 93.98	AP3
ATOM	3963	OE2		19	4.374	1.100	31.617	1.00 93.93	AP3
ATOM	3964	C	GLU	19	3.432	5.744	29.279	1.00 95.95	AP3
ATOM ATOM	3965	0	GLU	19	3.344	5.344	28.120	1.00 96.20	AP3
ATOM	3966	·N	ALA	20	2.405	6.265	29.938	1.00 96.02	AP3
ATOM	3967 3968	CA	ALA	20	1.123	6.407	29.269	1.00 96.23	AP3
ATOM	3969	CB	ALA	20	0.082	6.948	30.227	1.00 96.45	AP3
ATOM	3970	C	ALA	20	1.361	7.383	28.123	1.00 96.14	AP3
ATOM	3971	<b>и</b>	ALA	20	0.504	7.580	27.255	1.00 96.23	AP3
ATOM	3972	CA	ASP ASP	21	2.548	7.987	28.142	1.00 95.88	AP3
ATOM	3973	CB	ASP	21	2.972	8.934	27.120	1.00 95.67	AP3
ATOM	3974	CG	ASP	21	4.335	9.526	27.494	1.00 95.98	AP3
ATOM	3975		ASP	21	4.226	10.896	28.144	1.00 96.43	AP3
ATOM	3976		ASP	21	3.313	11.079	28.979	1.00 96.41	AP3
ATOM	3977	C	ASP	21 21	5.064	11.783	27.831	1.00 96.37	AP3
ATOM	3978	o	ASP	21	3.093	8.192	25.798	1.00 95.36	AP3
ATOM	3979	N	VAL	22	2.740	8.720	24.740	1.00 95.36	AP3
MOTA	3980	CA	VAL	22	3.593	6.959	25.877	1.00 95.01	AP3
MOTA	3981	СВ	VAL	22	3.802	6.107	24.706	1.00 94.72	AP3
MOTA	3982	CG1		22	4.975 5.062	5.105	24.935	1.00 94.84	AP3
-				~ ~	3.062	4.115	23.777	1.00 94.84	AP3

MOTA	3983	CG2		22	6.294	5.861	25.076	1.00 95.01	AP3
MOTA	3984	C	VAL	22	2.580	5.297	24.301	1.00 94.29	AP3
ATOM	3985	0	VAL	22	2.334	4.225	24.843	1.00 94.13	AP3
MOTA	3986	N	LYS	23	1.822	5.815	23.343	1.00 94.07	AP3
ATOM	3987	CA	LYS	23	0.642	5.120	22.847	1.00 93.68	AP3
MOTA	3988	CB	LYS	23	-0.524	6.087	22.694	1.00 93.74	AP3
ATOM	3989	С	LYS	23	1.046	4.550	21.498	1.00 93.39	AP3
MOTA	3990	0	LYS	23	2.170	4.759	21.050	1.00 93.48	AP3
MOTA	3991	N	LEU	24	0.134	3.842	20.846	1.00 93.12	AP3
MOTA	3992	CA	LEU	24	0.438	3.233	19.557	1.00 92.79	AP3
ATOM	3993	CB	LEU	24	-0.584	2.123	19.247	1.00 92.55	AP3
ATOM	3994	CG	LEU	24	-0.066	0.793	18.668	1.00 92.42	AP3
ATOM	3995	CD1	LEU	24	0.765	0.040	19.714	1.00 91.85	AP3
ATOM	3996		LEU	24	-1.248	-0.060	18.216	1.00 92.20	AP3
ATOM	3997	С	LEU	24	0.489	4.239	18.405	1.00 92.49	AP3
ATOM	3998	0	LEU	24	1.330	4.135	17.522	1.00 92.33	AP3
ATOM	3999	N	GLU	25	-0.400	5.219	18.407	1.00 92.48	AP3
ATOM	4000	CA	GLU	25	-0.389	6.189	17.325	1.00 92.80	AP3
ATOM	4001	CB	GLU	25	-1.810	6.654	17.015	1.00 93.44	AP3
ATOM	4002	CG	GLU	25	-2.765	5.516	16.729	1.00 94.57	AP3
ATOM	4003	CD	GLU	25	-4.153	6.007	16.407	1.00 95.36	AP3
ATOM	4004		GLU	25	-4.514	7.089	16.930	1.00 95.95	
ATOM	4005		GLU	25	-4.879	5.311	15.650		AP3
ATOM	4006	C	GLU	25	0.493	7.391	17.655	1.00 95.66	AP3
ATOM	4007	0	GLU	25 25				1.00 92.51	AP3
ATOM	4007	N	ALA	25 26	0.436	8.419	16.973	1.00 92.63	AP3
					1.311	7.262	18.697	1.00 91.90	AP3
ATOM	4009	CA	ALA	26	2.200	8.346	19.093	1.00 91.28	AP3
MOTA	4010	CB	ALA	26	2.729	8.101	20.505	1.00 90.92	AP3
ATOM	4011	C	ALA	26	3.360	8.459	18.100	1.00 91.07	AP3
MOTA	4012	.0	ALA	26	4.005	7.459	17.769	1.00 91.02	AP3
MOTA	4013	N	SER	27	3.602	9.674	17.605	1.00 90.75	AP3
MOTA	4014	CA	SER	27	4.702	9.924	16.666	1.00 90.16	AP3
MOTA	4015	CB	SER	27	4.460	11.190	15.826	1.00 90.40	AP3
ATOM	4016	OG	SER	27	5.623	11.544	15.080	1.00 90.09	AP3
MOTA	4017	С	SER	27	6.001	10.095	17.427	1.00 89.59	AP3
MOTA	4018	0	SER	27	6.040	10.694	18.501	1.00 89.05	AP3
ATOM	4019	N	PHE	28	7.069	9.566	16.857	1.00 89.40	AP3
MOTA	4020	CA	PHE	28	8.364	9.671	17.488	1.00 89.33	AP3
MOTA	4021	CB	PHE	28	9.377	8.800	16.740	1.00 88.83	AP3
MOTA	4022	CG	PHE	28	9.274	7.333	17.065	1.00 87.80	AP3
MOTA	4023	CD1	PHE	28 .	9.394	6.891	18.382	1.00 87.34	AP3
MOTA	4024	CD2	PHE	28	9.061	6.399	16.061	1.00 87.22	AP3
ATOM	4025	CE1	PHE	28	9.306	5.545	18.697	1.00 86.85	AP3
MOTA	4026	CE2	PHE	28	8.971	5.049	16.368	1.00 87.12	AP3
MOTA	4027	CZ	PHE	28	9.095	4.624	17.693	1.00 86.87	AP3
ATOM	4028	C	PHE	28	8.835	11.121	17.543	1.00 89.67	AP3
MOTA	4029	0	PHE	28	9.341	11.566	18.573	1.00 89.45	AP3
MOTA	4030	N	LYS	29	8.652	11.865	16.451	1.00 90.18	AP3
MOTA	4031	CA	LYS	29	9.095	13.263	16.417	1.00 90.72	AP3
ATOM	4032	СВ	LYS	29	9.453	13.681	14.986	1.00 90.81	AP3
MOTA	4033	CG	LYS	29	10.959	13.633	14.692	1.00 90.99	AP3
ATOM	4034	CD	LYS	29	11.237	13.776	13.195	1.00 91.39	AP3
ATOM	4035	CE	LYS	29	12.690	13.466	12.840	1.00 91.39	AP3
								1.00 91.39	AP3
ATOM	4036	NZ	LYS	29	12.835	13.201	11.371		AP3
MOTA	4037	C	LYS	29	8.115	14.268	17.001	1.00 90.70	AP3
MOTA	4038	0	LYS	29	8.477	15.063	17.869	1.00 90.68	
MOTA	4039	N	GLU	30	6.875	14.214	16.528	1.00 90.93	AP3

ATOM	4040	CA	GLU	30	5.820	15.131	16.961	1.00 90.95	AP3
ATOM	4041	CB	GLU	30	4.680	15.046	15.936	1.00 91.42	AP3
ATOM	4042	CG	GLU	30	5.175	15.444	14.528	1.00 93.07	AP3
ATOM	4043	CD	GLU	30	6.132	16.654	14.488	1.00 93.86	AP3
ATOM	4044	OE1	GLU	30	6.077	17.504	15.408	1.00 94.24	AP3
ATOM	4045	OE2	GLU	30	6.921	16.768	13.512	1.00 94.24	AP3
ATOM	4046	С	GLU	30	5.295	15.001	18.406	1.00 90.36	AP3
ATOM	4047	0	GLU	30	5.120	16.014	19.091	1.00 90.24	AP3
ATOM	4048	И	ASP	31	5.073	13.771	18.875	1.00 89.92	AP3
MOTA	4049	CA	ASP	31	4.547	13.519	20.232	1.00 89.32	AP3
MOTA	4050	CB	ASP	31	3.481	12.396	20.207	1.00 89.62	AP3
ATOM	4051	CG	ASP	31	2.159	12.822	19.558	1.00 89.86	AP3
ATOM	4052		ASP	31	1.483	13.725	20.107	1.00 90.00	AP3
ATOM	4053	OD2		31	1.790	12.243	18.504	1.00 89.74	AP3
ATOM	4054	C	ASP	31	5.598	13.141	21.286	1.00 88.79	AP3
ATOM	4055	0	ASP	31	5.439	13.436	22.471	1.00 88.28	AP3
ATOM	4056	N	LEU	32	6.662	12.467	20.864	1.00 88.48	AP3
ATOM	4057	CA	LEU	32	7.696	12.039	21.808	1.00 88.08	AP3
ATOM	4058	CB	LEU	32	8.178	10.628	21.443	1.00 88.20	AP3
ATOM	4059	CG	LEU	32	7.092	9.545	21.393	1.00 88.29	AP3
ATOM	4060		LEU	32	7.714	8.208	21.024	1.00 88.43	AP3
ATOM	4061		LEU	32	6.399	9.453	22.747	1.00 88.22	AP3
ATOM	4062	C	LEU	32	8.886	13.002	21.878	1.00 87.67	AP3
ATOM	4063	0	LEU	32	9.632	13.015	22.877	1.00 87.89	AP3
MOTA	4064	N	GLY	33	9.059	13.793	20.816	1.00 86.61	AP3
ATOM	4065	CA	GLY	33	10.138	14.763	20.766	1.00 85.37	AP3
MOTA	4066	С	GLY	33	11.502	14.142	20.557	1.00 84.27	AP3
ATOM	4067	0	GLY	33	12.447	14.401	21.311	1.00 84.12	AP3
ATOM	4068	И	ALA	34	11.595	13.307	19.532	1.00 83.28	AP3
ATOM	4069	CA	ALA	34	12.843	12.649	19.198	1.00 82.21	AP3
ATOM	4070	СВ	ALA	34	12.614	11.151	18.992	1.00 81.82	AP3
ATOM	4071	C	ALA	34	13.410	13.279	17.933	1.00 81.35	AP3
ATOM	4072	0	ALA	34	12.691	13.478	16.953	1.00 81.03	AP3
ATOM	4073	N	ASP	35	14.698	13.606	17.971	1.00 80.45	AP3
ATOM	4074	CA	ASP	35	15.348	14.198	16.818	1.00 79.95	AP3
MOTA MOTA	4075	CB	ASP	35	16.295	15.343	17.224	1.00 79.22	AP3
ATOM	4076	CG	ASP	35	17.324	14.928	18.258	1.00 79.03	AP3
ATOM	4077	OD1		35	17.556	13.710	18.421	1.00 78.87	AP3
ATOM	4078 4079	OD2	ASP	35	17.914	15.829	18.902	1.00 78.65	AP3
ATOM	4080	C	ASP	35	16.117	13.146	16.049	1.00 79.63	AP3
ATOM	4081	CA	asp Pan	35	16.163	11.983	16.446		AP3
ATOM	4082	И	PAN	36	17.510	12.743	14.053	1.00 79.08	AP3
ATOM	4083	Ĉ	PAN	36 36	16.721	13.582	14.947	1.00 79.50	AP3
ATOM	4084	0	PAN	36 36	18.515	11.845	14.766	1.00 77.61	AP3
ATOM	4085	05	PAN	36 36	18.825	10.763	14.288	1.00 77.16	AP3
ATOM	4086	P6	PAN	36	17.274	14.569	12.565	1.00 85.24	AP3
ATOM	4087	07	PAN	36 36	16.757	14.374	11.104	1.00 88.14	AP3
ATOM	4088	08	PAN	36 36	15.217	14.054	11.218	1.00 88.33	AP3
ATOM	4089	09	PAN		17.499	13.109	10.488	1.00 87.44	AP3
ATOM	4090	CB	PAN	36 36	17.008	15.600	10.291	1.00 88.61	AP3
ATOM	4091	И	LEU	36 37	18.231	13.636	13.050	1.00 81.25	AP3
ATOM	4092	CA	LEU	3 <i>7</i> 37	19.032	12.297	15.902	1.00 76.08	AP3
ATOM	4093	CB	LEU	3 <i>7</i> 37	19.979	11.494	16.647	1.00 74.58	AP3
ATOM	4094	CG	LEU	37 37	20.902	12.393	17.496	1.00 73.85	AP3
ATOM	4095		LEU	3 <i>7</i> 37	22.259	11.862	18.031	1.00 72.85	AP3
ATOM	4096		LEU	3 <i>7</i> 37	22.125	11.234	19.393	1.09 72.07	AP3
	-070	CDZ	JEU .	31	22.841	10.874	17.044	1.00 72.39	AP3

ATOM	4097	С	LEU	37	19.179	10.522	17.521	1.00 73.97	AP3
MOTA	4098	0	LEU	37	19.524	9.352	17.628	1.00 73.50	AP3
ATOM	4099	N	ASP	38	18.101	10.993	18.138	1.00 73.53	AP3
ATOM	4100	CA	ASP	38	17.301	10.098	18.970	1.00 72.79	AP3
ATOM	4101	CB	ASP	38	16.124	10.842	19.607	1.00 73.04	AP3
ATOM	4102	CG	ASP	38	16.481	11.464	20.962	1.00 73.81	AP3
ATOM	4103		ASP	38	15.731	12.358	21.431	1.00 73.99	AP3
ATOM	4104	OD2		38	17.504	11.055	21.572	1.00 74.36	AP3
ATOM	4105	C	ASP	38	16.799	8.959	18.094	1.00 72.08	AP3
ATOM	4106	0	ASP	38	16.909	7.787	18.460	1.00 71.86	AP3
ATOM	4107	N	VAL	39	16.287	9.300	16.919	1.00 71.14	AP3
ATOM	4108	CA	VAL	39	15.779	8.277	16.025	1.00 71.01	AP3
ATOM	4109	CB	VAL	39	15.220	8.869	14.664	1.00 71.24	AP3
ATOM	4110		VAL	39	16.325	9.539	13.844	1.00 71.90	AP3
ATOM ATOM	4111		VAL	39	14.602	7.764	13.839	1.00 71.08	AP3
ATOM	4112 4113	C	VAL VAL	39	16.793	7.170	15.739	1.00 70.58	AP3
ATOM	4114	о И	VAL	39 40	16.450	5.996	15.879	1.00 70.63	AP3
ATOM	4115	CA	VAL	40	18.034	7.491	15.369	1.00 70.04	AP3
ATOM	4116	CB	VAL	40	18.956 20.255	6.386	15.087	1.00 69.56	AP3
ATOM	4117		VAL	40	20.233	6.798 8.040	14.328	1.00 69.09	AP3
ATOM	4118		VAL	40	21.398	6.934	13.501 15.286	1.00 68.25 1.00 68.70	AP3
ATOM	4119	C	VAL	40	19.355	5.609	16.330	1.00 68.70	AP3
ATOM	4120	o	VAL	40	19.632	4.419	16.236	1.00 69.75	AP3
ATOM	4121	N	GLU	41	19.394	6.251	17.494	1.00 69.52	AP3 AP3
ATOM	4122	CA	GLU	41	19.750	5.501	18.691	1.00 70.33	AP3
ATOM	4123	СВ	GLU	41	20.063	6.413	19.881	1.00 71.20	AP3
ATOM	4124	CG	GLU	41	20.212	5.583	21.164	1.00 74.01	AP3
ATOM	4125	CD	GLU	41	20.933	6.295	22.307	1.00 75.35	AP3
ATOM	4126	OE1		41	20.488	7.410	22.704	1.00 76.32	AP3
ATOM	4127	OE2		41	21.938	5.723	22.815	1.00 74.88	AP3
ATOM	4128	C	GLU	41	18.569	4.574	19.029	1.00 71.15	AP3
ATOM	4129	0	GLU	41	18.753	3.453	19.535	1.00 71.23	AP3
ATOM	4130	N	LEU	42	17.366	5.053	18.718	1.00 70.41	AP3
MOTA	4131	CA	LEU	42	16.132	4.309	18.947	1.00 69.86	AP3
MOTA	4132	CB	LEU	42	14.937	5.219	18.664	1.00 69.83	AP3
ATOM	4133	CG	LEU	42	13.790	5.127	19.661	1.00 70.14	AP3
MOTA	4134	CD1	LEU	42	14.294	5.398	21.072	1.00 70.26	AP3
ATOM	4135	CD2	LEU	42	12.735	6.126	19.280	1.00 70.54	AP3
ATOM	4136	С	LEU	42	16.081	3.076	18.033	1.00 69.20	AP3
ATOM	4137	0	LEU	42	15.799	1.969	18.480	1.00 68.64	AP3
MOTA	4138	N	VAL	43	16.352	3.287	16.751	1.00 68.63	AP3
ATOM	4139	CA	VAL	43	16.371	2.211	15.783	1.00 68.57	AP3
ATOM	4140	CB	VAL	43	16.651	2.761	14.361	1.00 68.12	AP3
ATOM	4141		VAL	43	17.349	1.716	13.520	1.00 68.00	AP3
ATOM	4142		VAL	43	15.357	3.167	13.691	1.00 67.66	AP3
MOTA	4143	C	VAL	43	17.434	1.161	16.136	1.00 68.96	AP3
ATOM	4144	0	VAL	43	17.221	-0.025	15.965	1.00 69.09	AP3
ATOM	4145	И	MET	44	18.584	1.584	16.634	1.00 69.75	AP3
ATOM	4146	CA	MET	44	19.624	0.616	16.954	1.00 70.62	AP3
ATOM	4147	CB	MET	44	20.955	1.333	17.165	1.00 70.97	AP3
ATOM	4148	CG	MET	44	21.520	1.984	15.900	1.00 70.88	AP3
ATOM	4149	SD	MET	44	23.026	2.871	16.329	1.00 71.36	AP3
ATOM	4150	CE	MET	44	24.138	1.540	16.501	1.00 71.46	AP3
ATOM	4151	C	MET	44	19.267	-0.219	18.171	1.00 70.87	AP3
MOTA	4152	0	MET	44	19.633	-1.377	18.281	1.00 70.84	AP3
ATOM	4153	N	GLU	45	18.550	0.374	19.098	1.00 71.61	AP3

MOTA	4154	CA	GLU	45	18.148	-0.364	20.265	1.00 72.72	202
MOTA	4155	CB	GLU	45	17.465	0.574	21.241	1.00 74.12	AP3 AP3
ATOM	4156	CG	GLU	45	17.616	0.132	22.660	1.00 76.86	AP3
ATOM	4157	CD	GLU	45	18.162	1.241	23.512	1.00 78.21	AP3
MOTA	4158		GLU	45	19.158	1.860	23.070	1.00 79.78	AP3
ATOM	4159		GLU	45	17.607	1.494	24.609	1.00 78.92	AP3
ATOM	4160	C	GLU	45	17.176	-1.470	19.830	1.00 72.48	AP3
ATOM	4161	0	GLU	45	17.188	-2.579	20.368	1.00 71.93	AP3
ATOM	4162	N	LEU	46	16.332	-1.148	18.856	1.00 72.22	AP3
ATOM	4163	CA	LEU	46	15.369	-2.101	18.338	1.00 72.56	AP3
ATOM	4164	CB	LEU	46	14.345	-1.402	17.434	1.00 71.96	AP3
ATOM	4165	CG	LEU	46	13.399	-0.406	18.112	1.00 71.81	AP3
ATOM	4166	CD1	LEU	46	12.653	0.403	17.061	1.00 71.44	AP3
ATOM	4167		LEU	46	12.434	-1.141	19.030	1.00 71.22	AP3
MOTA	4168	C	LEU	46	16.145	-3.137	17.538	1.00 73.07	AP3
ATOM	4169	0	LEU	46	15.716	-4.281	17.407	1.00 73.17	AP3
ATOM	4170	И	GLU	47	17.288	-2.726	16.996	1.00 73.44	AP3
MOTA	4171	CA	GLU	47	18.127	-3.638	16.233	1.00 74.04	AP3
ATOM	4172	СВ	GLU	47	19.261	-2.932	15.466	1.00 73.93	
ATOM	4173	CG	GLU	47	18.998	-2.437	14.043	1.00 20.00	AP3
ATOM	4174	CD	GLU	47	20.090	-1.830	13.191	1.00 20.00	AP3
ATOM	4175	OE1	GLU	47	21.243	-1.687	13.573	1.00 20.00	AP3
MOTA	4176	OE2	GLU	47	19.767	-1.801	12.004	1.00 20.00	AP3 AP3
ATOM	4177	С	GLU	47	18.578	-4.672	17.245	1.00 74.60	
ATOM	4178	0	GLU	47	18.464	-5.862	17.025	1.00 74.69	AP3
ATOM	4179	N	ASP	48	19.077	-4.191	18.373	1.00 75.61	AP3
ATOM	4180	CA	ASP	48	19.559	-5.051	19.446	1.00 76.66	AP3
ATOM	4181	CB	ASP	48	20.135	-4.162	20.574	1.00 76.52	AP3 AP3
ATOM	4182	CG	ASP	48	21.552	-4.573	21.002	1.00 76.90	AP3
ATOM	4183	OD1	ASP	48	22.385	-4.922	20.131	1.00 76.48	
MOTA	4184	OD2	ASP	48	21.840	-4.527	22.221	1.00 76.87	AP3 AP3
ATOM	4185	C	ASP	48	18.431	-5.969	19.981	1.00 77.22	
ATOM	4186	0	ASP	48	18.467	-7.186	19.792	1.00 77.42	AP3 AP3
ATOM	4187	N	GLU	49	17.427	-5.373	20.623	1.00 77.74	AP3
ATOM	4188	CA	GLU	49	16.305	-6.110	21.216	1.00 78.13	AP3
ATOM	4189	CB	GLU	49	15.181	-5.135	21.601	1.00 78.45	
ATOM	4190	CG	GLU	49	14.040	-5.768	22.413	1.00 78.97	AP3 AP3
ATOM	4191	CD	GLU	49	14.522	-6.426	23.708	1.00 79.44	AP3
MOTA	4192	OEl	GLU	49	15.314	-5.805	24.456	1.00 79.86	
MOTA	4193	OE2	GLU	49	14.103	-7.565	23.986	1.00 79.37	AP3 AP3
MOTA	4194	С	GLU	49	15.702	-7.248	20.394	1.00 78.17	AP3
MOTA	4195	0	GLU	49	15.764	-8.406	20.794	1.00 78.04	AP3
ATOM	4196	N	PHE	50	15.112	-6.899	19.258	1.00 78.28	AP3
ATOM	4197	CA	PHE	50	14.457	-7.854	18.378	1.00 78.51	AP3
ATOM	4198	CB	PHE	50	13.297	-7.153	17.675	1.00 78.05	AP3
ATOM	4199	CG	PHE	50	12.305	-6.526	18.616	1.00 77.86	AP3
ATOM	4200	CD1	PHE	50	11.336	-7.298	19.249	1.00 77.75	AP3
ATOM	4201	CD2		50	12.349	-5.166	18.884	1.00 77.65	AP3
ATOM	4202	CE1		50	10.429	-6.727	20.134	1.00 77.49	AP3
MOTA	4203	CE2		50	11.446	-4.588	19.767	1.00 77.43	AP3
MOTA	4204	CZ	PHE	50	10.483	-5.374	20.393	1.00 77.71	AP3
ATOM	4205	С	PHE	50	15.390	-8.485	17.338	1.00 77.71	AP3 AP3
ATOM	4206	0	PHE	50	14.962	-9.268	16.482	1.00 79.21	AP3
ATOM	4207	N	ASP	51	16.666	-8.141	17.406	1.00 79.08	AP3
ATOM	4208		ASP	51	17.650	-8.677	16.469	1.00 79.94	AP3
ATOM	4209		ASP	51	17.937		16.782	1.00 80.87	
ATOM	4210		ASP	51	19.097				AP3
			•		-2.031	-10.083	15.970	1.00 82.44	AP3

MOTA	4211	OD1		51	20.252	-10.277	16.260	1.00 82.50	AP3
MOTA	4212	OD2		51	18.856	-11.499	15.041	1.00 82.89	AP3
MOTA	4213	С	ASP	51	17.319	-8.568	14.978	1.00 81.25	AP3
MOTA	4214	0	ASP	51	17.156	-9.580	14.299	1.00 81.47	AP3
ATOM	4215	И	MET	52	17.212	-7.350	14.462	1.00 81.48	AP3
MOTA	4216	CA	MET	52	16.957	-7.173	13.040	1.00 82.01	AP3
ATOM	4217	CB	MET	52	15.510	-6.750	12.775	1.00 82.14	AP3
ATOM	4218	CG	MET	52	14.696	-6.381	14.007	1.00 82.31	AP3
MOTA	4219	SD	MET	52	13.071	-5.722	13.542	1.00 82.25	AP3
ATOM	4220	CE	MET	52	12.014	-7.194	13.718	1.00 82.26	AP3
ATOM	4221	C	MET	52	17.926	-6.121	12.519	1.00 82.34	AP3
ATOM	4222	0	MET	52	18.885	-5.763	13.209	1.00 82.16	AP3
ATOM	4223	N	GLU	53	17.702	-5.627	11.308	1.00 82.90	AP3
ATOM	4224	CA	GLU	53	18.610	-4.614	10.779	1.00 83.60	AP3
ATOM	4225	CB	GLU	53	19.123	-5.031	9.393	1.00 84.21	AP3
ATOM ATOM	4226 4227	CG CD	GLU GLU	53 53	20.382	-5.919	9.461	1.00 85.24	AP3
ATOM	4227		GLU	53 . 53	20.835	-6.458	8.097	1.00 85.76	AP3
ATOM	4229	OE2	GLU	53 53	21.136 20.899	-5.656	7.182	1.00 85.78	AP3
ATOM	4230	C	GLU	53	17.612	-7.696 -3.738	7.942 10.000	1.00 86.03 1.00 83.76	AP3
ATOM	4231	0	GLU	53	16.959	-4.220	9.060	1.00 83.76	AP3
ATOM	4232	N	ILE	54	17.503	-2.461	10.362	1.00 83.35	AP3 AP3
ATOM	4233	CA	ILE	54	16.552	-1.545	9.704	1.00 83.33	AP3
ATOM	4234	CB	ILE	54	16.164	-0.927	11.074	1.00 82.72	AP3
ATOM	4235	CG2		54	15.129	0.174	10.882	1.00 82.02	AP3
ATOM	4236		ILE	54	15.556	-1.994	11.975	1.00 82.36	AP3
ATOM	4237	CD1		54	15.194	-1.481	13.334	1.00 82.18	AP3
ATOM	4238	C	ILE	54	17.561	-0.609	9.007	1.00 82.25	AP3
ATOM	4239	Ō	ILE	54	18.456	-0.037	9.633	1.00 81.65	AP3
ATOM	4240	N	SER	55	17.408	-0.482	7.693	1.00 81.94	AP3
ATOM	4241	CA	SER	55	18.277	0.359	6.884	1.00 81.54	AP3
ATOM	4242	СВ	SER	55	18.019	0.082	5.399	1.00 80.92	AP3
ATOM	4243	OG	SER	55	16.645	0.198	5.090	1.00 79.92	AP3
ATOM	4244	C	SER	55	18.010	1.824	7.202	1.00 81.54	AP3
ATOM	4245	0	SER	55	17.098	2.137	7.970	1.00 81.30	AP3
ATOM	4246	N	ASP	56	18.798	2.724	6.618	1.00 81.47	AP3
ATOM	4247	CA	ASP	56	18.590	4.145	6.872	1.00 81.81	AP3
MOTA	4248	CB	ASP	56	19.683	5.001	6.193	1.00 81.44	AP3
ATOM	4249	CG	ASP	56	21.040	4.968	6.948	1.00 81.79	AP3
ATOM	4250	OD1	ASP	56	21.046	4.792	8.192	1.00 81.20	AP3
ATOM	4251	OD2	ASP	56	22.105	5.147	6.298	1.00 81.38	AP3
MOTA	4252	C	ASP	56	17.193	4.522	6.353	1.00 82.06	AP3
MOTA	4253	0	ASP	56	16.468	5.310	6.971	1.00 81.65	AP3
MOTA	4254	N	GLU	57	16.812	3.922	5.231	1.00 82.50	AP3
ATOM	4255	CA	GLU	57	15.519	4.181	4.617	1.00 83.23	AP3
MOTA	4256	CB	GLU	57	15.489	3.600	3.212	1.00 83.97	AP3
MOTA	4257	CG	GLU	57	14.093	3.344	2.663	1.00 85.29	AP3
MOTA	4258	CD	GLU	57	14.151	2.565	1.360	1.00 86.35	AP3
MOTA	4259		GLU	57	14.973	1.619	1.297	1.00 86.59	AP3
ATOM	4260		GLU	57	13.388	2.891	0.414	1.00 86.49	AP3
ATOM	4261	C	GLU	57	14.389	3.582	5.410	1.00 83.25	AP3
ATOM	4262	0	GLU	57	13.307	4.140	5.485	1.00 83.37	AP3
ATOM	4263	N	ASP	58	14.645	2.419	5.977	1.00 83.61	AP3
ATOM	4264	CA	ASP	58	13.643	1.733	6.762	1.00 84.08	AP3
ATOM	4265	CB	ASP	58	14.221	0.420	7.298	1.00 84.48	AP3
ATOM	4266	CG	ASP	58	13.920	-0.757	6.399	1.00 84.79	AP3
MOTA	4267	ODI	ASP	58	13.894	-0.578	5.161	1.00 84.94	AP3

MOTA	4268	OD2	ASP	58	13.718	-1.866	6.937	1.00 85.28	AP3
ATOM	4269	C	ASP	58	13.161	2.594	7.916	1.00 84.20	AP3
MOTA	4270	0	ASP	58	11.956	2.768	8.106	1.00 84.18	AP3
ATOM	4271	N	ALA	59	14.110	3.127	8.682	1.00 84.44	AP3
MOTA	4272	CA	ALA	59	13.800	3.947	9.847	1.00 84.80	AP3
MOTA	4273	CB	ALA	59	15.090	4.324	10.576	1.00 84.94	AP3
ATOM	4274	C	ALA	59	13.012	5.196	9.490	1.00 85.16	AP3
MOTA	4275	0	ALA	59	12.270	5.733	10.320	1.00 84.92	AP3
MOTA	4276	N	GLU	60	13.179	5.649	8.251	1.00 85.66	AP3
ATOM	4277	CA	GLU	60	12.491	6.829	7.756	1.00 86.22	AP3
ATOM	4278	CB	GLU	60 ·	13.172	7.307	6.472	1.00 86.31	AP3
MOTA	4279	CG	GLU	60	12.273	7.576	5.288	1.00 86.31	AP3
ATOM	4280	CD	GLU	60	13.066	8.014	4.068	1.00 86.35	AP3
ATOM	4281		GLU	60	13.683	9.096	4.127	1.00 86.38	AP3
ATOM	4282	OE2		.60	13.086	7.277	3.056	1.00 86.60	AP3
ATOM	4283	C	GLU	60	11.011	6.543	7.528	1.00 86.77	AP3
ATOM	4284	0	GLU	60	10.228	7.453	7.250	1.00 87.01	AP3
ATOM ATOM	4285 4286	N CA	LYS LYS	61	10.623	5.277	7.653	1.00 87.25	AP3
ATOM	4285	CB	LYS	61 61	9.220	4.909	7.488	1.00 87.61	AP3
ATOM	4288	CG	LYS	61	9.074 7.624	3.593	6.731	1.00 88.37	AP3
ATOM	4289	CD	LYS	61	7.551	3.104	6.665	1.00 89.43	AP3
ATOM	4290	CE	LYS	61		1.686	6.112	1.00 90.13	AP3
ATOM	4291	NZ	LYS	61	6.127 6.108	1.165 -0.219	6.055	1.00 90.43	AP3
ATOM	4292	C	LYS	61	8.503	4.778	5.489	1.00 90.66	AP3
ATOM	4293	ō	LYS	61	7.396	5.299	8.830	1.00 87.34 1.00 87.16	AP3
ATOM	4294	N	ILE	62	9.122	4.090	8.987 9.791	1.00 87.16	AP3
ATOM	4295	CA	ILE	62	8.488	3.909	11.094	1.00 87.02	AP3
ATOM	4296	СВ	ILE	62	9.281	2.898	11.094	1.00 86.92	AP3
ATOM	4297	CG2	ILE	62	9.711	1.698	11.164	1.00 86.77	AP3 AP3
ATOM	4298	CG1	ILE	62	10.516	3.547	12.621	1.00 86.82	AP3
ATOM	4299	CD1		62	11.170	2.683	13.670	1.00 86.27	AP3
ATOM	4300	C	ILE	62	8.285	5.258	11.802	1.00 86.84	AP3
ATOM	4301	ō	ILE	62	9.041	5.659	12.698	1.00 86.83	AP3
ATOM	4302	N	ALA	63	7.228	5.941	11.373	1.00 86.40	AP3
ATOM	4303	CA	ALA	63	6.847	7.255	11.876	1.00 85.95	AP3
ATOM	4304	CB	ALA	63	5.758	7.850	10.975	1.00 86.18	AP3
MOTA	4305	C	ALA	63	6.376	7.268	13.323	1.00 85.54	AP3
ATOM	4306	0	ALA	63	6.790	8.124	14.109	1.00 85.58	AP3
ATOM	4307	N	THR	64	5.494	6.335	13.670	1.00 84.92	AP3
ATOM	4308	CA	THR	64	4.977	6.272	15.033	1.00 84.10	AP3
ATOM	4309	CB	THR	64	3.462	6.508	15.069	1.00 84.08	AP3
ATOM	4310	OG1	THR	64	2.779	5.266	14.876	1.00 84.50	AP3
MOTA	4311	CG2	THR	64	3.052	7.468	13.959	1.00 84.49	AP3
ATOM	4312	C	THR	64	5.279	4.911	15.638	1.00 83.31	AP3
MOTA	4313	0	THR	64	5.930	4.074	15.008	1.00 83.15	AP3
MOTA	4314	N	VAL	65	4.797	4.697	16.858	1.00 82.39	AP3
ATOM	4315	CA	VAL	65	5.026	3.441	17.567	1.00 81.57	AP3
MOTA	4316	CB	VAL	65	4.426	3.504	18.998	1.00 81.36	AP3
MOTA	4317		VAL	65	4.872	2.300	19.806	1.00 81.23	AP3
ATOM	4318		VAL	65	4.856	4.790	19.687	1.00 81.01	AP3
ATOM	4319	C	VAL	65	4.435	2.246	16.807	1.00 81.21	AP3
MOTA	4320	0	VAL	65	5.159	1.333	16.406	1.00 80.81	AP3
ATOM	4321	N	GLY	66	3.118	2.270	16.603	1.00 80.94	AP3
ATOM	4322	CA	GLY	66	2.440	1.198	15.887	1.00 80.21	AP3
MOTA	4323	C	GLY	66	3.238	0.690	14.702	1.00 79.61	AP3
MOTA	4324	0	GLY	66	3.559	-0.492	14.644	1.00 80.05	AP3

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ATOM	4325	N	ASP	67	3.560	1.586	13.768	1.00 78.67	AP3
MOTA	4326	CA	ASP	67	4.334	1.250	12.577	1.00 77.46	AP3
ATOM	4327	CB	ASP	67	4.810	2.527	11.866	1.00 78.12	AP3
ATOM	4328	CG	ASP	67	3.663	3.435	11.426	1.00 78.60	AP3
ATOM	4329		ASP	67	3.948	4.595	11.038	1.00 78.50	AP3
ATOM	4330	OD2	ASP	67	2.484	2.998	11.460	1.00 79.03	AP3
ATOM	4331	С	ASP	67	5.553	0.427	12.966	1.00 76.39	AP3
ATOM	4332	0	ASP	67	5.847	-0.586	12.349	1.00 76.25	AP3
ATOM	4333	N	ALA	68	6.265	0.875	13.992	1.00 75.14	AP3
ATOM	4334	CA	ALA	68	7.461	0.177	14.443	1.00 74.09	AP3
ATOM	4335	СВ	ALA	68	8.127	0.958	15.557	1.00 73.75	AP3
ATOM	4336	C	ALA	68	7.126	-1.231	14.923	1.00 73.41	AP3
ATOM	4337	0	ALA	68	7.901	-2.178	14.722	1.00 72.94	AP3
ATOM ATOM	4338	N	VAL	69	5.977	-1.353	15.583	1.00 72.59	AP3
ATOM	4339 4340	CA CB	VAL	69 60	5.516	-2.640	16.078	1.00 71.94	AP3
ATOM	4340		VAL	69	4.233	-2.496	16.913	1.00 71.70	AP3
ATOM	4342	CG2	VAL	69 60	3.613	-3.860	17.128	1.00 72.09	AP3
ATOM	4343	C	VAL	69 69	4.550	-1.867	18.264	1.00 71.85	AP3
ATOM	4344	0	VAL VAL	69 69	5.235	-3.533	14.874	1.00 71.56	AP3
ATOM	4345	И	ASN	69 70	5.670	-4.677	14.834	1.00 71.28	AP3
ATOM	4346	CA	ASN	70 70	4.536 4.173	-2.977	13.888	1.00 71.51	AP3
ATOM	4347	CB	ASN	70 70	3.286	-3.684	12.670	1.00 71.50	AP3
ATOM	4348	CG	ASN	70	1.985	-2.806 -2.388	11.784	1.00 72.56	AP3
ATOM	4349		ASN	70 70	1.333	-2.300	12.481	1.00 74.31	AP3
ATOM	4350		ASN	70	1.591	-1.124	13.183 12.279	1.00 74.53 1.00 74.65	AP3
ATOM	4351	С	ASN	70	5.365	-4.164	11.864	1.00 74.83	AP3
ATOM	4352	ō	ASN	70	5.292	-5.213	11.226	1.00 70.88	AP3 AP3
ATOM	4353	N	TYR	71	6.457	-3.405	11.887	1.00 71.14	AP3
ATOM	4354	CA	TYR	71	7.656	-3.775	11.148	1.00 68.50	AP3
ATOM	4355	CB	TYR	71	8.579	-2.564	10.985	1.00 68.49	AP3
MOTA	4356	CG	TYR	71	9.941	-2.875	10.408	1.00 68.25	AP3
MOTA	4357	CD1	TYR	71	10.983	-3.316	11.223	1.00 68.37	AP3
ATOM	4358	CE1	TYR	71	12.246	-3.579	10.700	1.00 68.50	AP3
ATOM	4359	CD2	TYR	71	10.195	-2.709	9.048	1.00 68.69	AP3
ATOM	4360	CE2	TYR	71	11.452	-2.968	8.512	1.00 68.85	AP3
MOTA	4361	CZ	TYR	71	12.476	-3.397	9.342	1.00 68.83	AP3
MOTA	4362	OH	TYR	71	13.740	-3.604	8.823	1.00 68.91	AP3
MOTA	4363	C	TYR	71	8.381	-4.890	11.876	1.00 67.81	AP3
ATOM	4364	0	TYR	71	9.000	-5.753	11.250	1.00 67.59	AP3
ATOM	4365	N	ILE	72	8.307	-4.867	13.201	1.00 66.78	AP3
ATOM	4366	CA	ILE	72	8.952	-5.895	14.004	1.00 66.16	AP3
MOTA	4367	CB	ILE	72	8.971	-5.479	15.475	1.00 65.95	AP3
MOTA	4368		ILE	72	9.601	-6.577	16.323	1.00 65.37	·AP3
ATOM	4369		ILE	72	9.738	-4.161	15.605	1.00 65.65	AP3
ATOM	4370		ILE	72	9.745	-3.580	16.986	1.00 65.29	AP3
ATOM	4371	C	ILE	72	8.254	-7.259	13.831	1.00 65.87	AP3
ATOM	4372	0	ILE	72	8.826	-8.301	14.112	1.00 65.61	AP3
ATOM	4373	N	GLN	73	7.015	-7.235	13.361	1.00 65.77	AP3
MOTA	4374	CA	GLN	73	6.263	-8.454	13.096	1.00 66.13	AP3
MOTA	4375	CB	GLN	73	4.798	-8.278	13.581	1.00 65.55	AP3
ATOM	4376	CG	GLN	73	4.647	-7.843	15.063	1.00 64.13	AP3
ATOM	4377	CD	GLN	73	3.220	-7.421	15.452	1.00 64.08	AP3
ATOM	4378		GLN	73	2.478	-6.865	14.644	1.00 63.85	AP3
ATOM	4379		GLN	73	2.847	-7.663	16.704	1.00 63.21	AP3
ATOM	4380	C	GLN	73	6.332	-8.670	11.555	1.00 66.46	AP3
ATOM	4381	OT1	GLN	73	7.311	-9.301	11.073	1.00 66.98	AP3

ATOM	4382	OT2	GLN	73	5.443	-8.169	10.822	1.00 66.91	AP3
MOTA	4383	Na	Na	74	20.764	19.142	15.649	1.00 20.00	AP3
ATOM	4384	Cl	Cl	75	48.270	38.501	33.120	1.00 20.00	AP3
MOTA	4385	0	HOH	1	20.971	35.418	19.446	1.00 28.08	W
ATOM	4386	0	нон	3	17.476	26.774	26.314	1.00 30.37	W
ATOM	4387	0	нон	4	12.070	27.791	30.387	1.00 43.18	W
ATOM	4388	0	HOH	6	-0.243	36.108	7.284	1.00 29.98	W
MOTA	4389	0	нон	7	0.953	30.812	3.352	1.00 25.95	W
MOTA	4390	0	нон	8	4.210	27.477	6.553	1.00 39.30	W
ATOM	4391	0	нон	9	0.717	18.079	16.564	1.00 67.04	W
ATOM	4392	0	нон	11	15.048	43.095	-2.130	1.00 39.40	W
ATOM	4393	0	нон	12	17.559	22.506	6.739		W
ATOM	4394	0	нон	13	12.217	24.755	13.778	1.00 46.52	W
ATOM	4395	0	нон	15	35.287	26.338	18.440	1.00 20.30	W
ATOM	4396	0	нон	·17	18.594	25.738	2.095	1.00 35.11	W
ATOM	4397	0	HOH	18	15.737	27.004	1.792	1.00 44.57	W
ATOM ATOM	4398	0	HOH	19	17.787	25.982	-0.493	1.00 47.08	W
ATOM	4399 4400	0	HOH HOH	20 ° 22	14.655	29.401	1.057	1.00 29.13	W
ATOM	4401	0	нон	23	10.016	35.007	-1.744	1.00 28.29	W
ATOM	4402	0	нон	23 25	36.914 50.466	24.143	16.155	1.00 45.82	W
ATOM	4403	0	нон	30	37.884	41.898	3.162	1.00 51.46	W
ATOM	4404	0	HOH	33	2.929	38.482 18.357	31.771	1.00 44.83	W
ATOM	4405	0	нон	35 35	36.000	25.296	18.770	1.00 39.37 1.00 51.16	W
ATOM	4406	Ö	нон	36	36.246	24.282	5.752 8.528	1.00 31.16	W
ATOM	4407	Ö	нон	37	28,425	33.179	30.115	1.00 28.38	W W
ATOM	4408	Ö	нон	41	21.454	21.279	24.073	1.00 42.35	W
ATOM	4409	ŏ	нон	43	32.713	18.758	19.974	1.00 42.33	w
ATOM	4410	o	нон	45	27.158	17.997	25.229	1.00 42.25	w
ATOM	4411	Ö	нон	47	15.063	24.776	27.152	1.00 51.90	W
ATOM	4412	Ö	нон	48	3.825	36.800	4.340	1.00 34.80	w
ATOM	4413	ŏ	нон	50	20.567	27.887	27.820	1.00 55.40	W
ATOM	4414	Ö	нон	51	4.233	27.038	25.001	1.00 46.58	w
ATOM	4415	Ō	нон	52	29.473	30.435	6.152	1.00 30.54	W
ATOM	4416	Ō	нон	53	35.273	26.999	22.829	1.00 20.05	W
ATOM	4417	Ö	нон	55	42.995	43.869	7.601	1.00 34.30	W
ATOM	4418	0	нон	56	44.770	43.791	9.728	1.00 38.02	W
ATOM	4419	0	нон	57	16.116	25.445	30.290	1.00 58.80	W
ATOM	4420	0	нон	58	0.147	32.556	5.561	1.00 35.33	W
MOTA	4421	0	HOH	59	-0.841	26.194	8.298	1.00 52.99	W
MOTA	4422	0	HOH	60	10.370	26.637	13.493	1.00 36.98	W
MOTA	4423	0	HOH	61	8.214	23.987	10.644	1.00 40.29	W
ATOM	4424	0	HOH	62	7.673	46.913	8.463	1.00 47.90	. M
ATOM	4425	0	HOH	63	4.946	41.758	13.539	1.00 40.09	W
ATOM	4426	0	HOH	64	2.008	26.400	4.288	1.00 44.86	W .
MOTA	4427	0	HOH	65	32.337	32.228	-5.705	1.00 32.42	W
ATOM	4428	0	HOH	66	27.158	29.103	4.575	1.00 46.49	W
MOTA	4429	0	HOH	67	51.087	34.911	10.070	1.00 39.28	W
MOTA.	4430	0	HOH	68	32.466	40.888	5.401	1.00 33.93	W
ATOM	4431	0	HOH	69	39.494	41.762	2.408	1.00 58.71	W
ATOM	4432	0	HOH	70	38.446	9.804	5.548	1.00 44.19	W
ATOM	4433	0	HOH	71	37.802	15.483	14.333	1.00 53.16	W
ATOM	4434	0	HOH	72	36.104	17.125	13.465	1.00 49.31	W
MOTA	4435	0	HOH	73	35.093	14.562	11.995	1.00 37.15	W
ATOM	4436	0	HOH	74	39.249	13.856	9.700	1.00 43.73	W
ATOM	4437	0	HOH	75	40.786	20.731	-0.083	1.00 41.60	W
ATOM	4438	0	HOH	76	42.538	13.280	2.142	1.00 53.85	W

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ATOM	4439		нон	77	43.889	24.163	2.388	1.00	37.18	
ATOM	4440		HOH	79	2.540				52.66	w W
ATOM	4441		HOH	80	43.300	39.495			44.05	W
ATOM	4442		нон	81	30.076		_		41.35	w
ATOM	4443		нон	82	0.554				53.47	w
ATOM	4444		HOH	83	42.781	28.492	12.843		51.06	w
ATOM	4445		нон	84	17.785	20.002			47.01	w
ATOM	4446	_	нон	85	57.006		12.705		61.42	w
ATOM ATOM	4447	_	нон	86	35.408				51.93	W
ATOM	4448	_	нон	87	26.037		5.073		55.68	W
ATOM	4449 4450		нон	88	-0.037		11.554		62.51	W
ATOM	4451	_	нон	89	18.549				57.85	W
ATOM	4452	0	нон	90	35.373	; = - <b></b>			44.09	W
ATOM	4453	0	HOH	91	43.922			1.00	54.42	W
ATOM	4454	Ö	нон Нон	92	7.281				54.35	W
ATOM	4455	Ö	нон	93	36.648	-0.702			47.55	W
ATOM	4456	Ö	нон	94 95	24.724	39.269			53.05	W
ATOM	4457	ŏ	нон	96	19.529	33.965			58.72	W
ATOM	4458	Ö	нон	98	25.749	39.500			57.45	W
ATOM	4459	Ö	нон	99	2.556	39.351	3.903		60.67	W
ATOM	4460	ō	нон	100	4.962 52.895	24.357			50.93	W
ATOM	4461	ō	нон	101	29.825	36.138	12.412		58.46	W
ATOM	4462	ō	нон	102	21.479	40.539	5.862		49.27	W
ATOM	4463	ō	нон	103	17.766	17.255	17.560		57.74	W
MOTA	4464	0	нон	104	1.919	38.296 40.589	19.527		57.08	W
ATOM	4465	0	нон	105	45.650	16.023	25.467		69.59	W
ATOM	4466	0	нон	106	39.326	28.368	1.737		68.18	W
ATOM	4467	0	нон	107	3.591	33.811	32.930		53.77	W
ATOM	4468	0	нон	108	33.929	42.844	2.107 3.314		46.49	W
ATOM	4469	0	HOH	109	46.647	46.329	14.321		55.14	W
ATOM	4470	0	HOH	110	39.222	24.809	6.979		59.44 50.22	W
MOTA	4471	0	HOH	111.	49.804	23.224	6.539		58.63	W
ATOM	4472	0	HOH	112	-3.058	18.507	16.487	1.00		W
ATOM	4473	0	HOH	113	27.700	31.120	-5.231	1.00		W
ATOM	4474	0	HOH	114	29.929	38.507	-4.418	1.00		W W
ATOM	4475	0	HOH	115	34.570	42.009	0.898	1.00		w
ATOM	4476	0	HOH	116	40.508	27.337	28.107	1.00		w
ATOM	4477	0	HOH	117	41.210	12:812	-1.190	1.00		w
ATOM	4478	0	HOH	118	23.723	30.084	26.100	1.00		w
ATOM	4479	0	HOH	119	0.869	28.565	2.785			W
ATOM	4480	0	HOH	120	15.469	15.123	22.821	1.00	20.00	W
ATOM	4481	0	HOH	122	12.470	22.800	11.398	1.00	20.00	, W
ATOM	4482	0	HOH	123	41.506	25.423	15.397	1.00	20.00	·W
MOTA	4483	0	HOH	124	37.626	28.216	31.136	1.00		W
ATOM	4484	0	HOH	125	48.566	37.385	16.630	1.00	20.00	W
ATOM ATOM	4485	0	HOH	126	1.496	22.085	13.272	1.00	20.00	W
ATOM	4486	0	HOH	127	34.698	24.986	24.965	1.00		W
ATOM	4487 4488	0	нон	128	-2.903	37.363	6.990	1.00		W
ATOM	4489	0	нон	129	12.491	-3.414	25.110	1.00		W
ATOM	4490	0	нон	130		-10.899	28.961	1.00		W
ATOM	4491	0	HOH	131	48.659	38.012	29.029	1.00		W
ATOM	4492	0	HOH	133	52.619	28.488	32.666	1.00		W
ATOM	4493	0	HOH	134	39.711	23.898	9.790	1.00		W
ATOM	4494	0	HOH	135	3.443	35.318	-0.076	1.00		W
ATOM	4495	0	HOH	136	20.485		-10.828	1.00		W
	44 <i>3</i> 3	J	HOH	137	27.808	44.788	25.549	1.00	20.00	W

ATOM ATOM ATOM ATOM ATOM	4496 4497 4498 4499 4500 4501	0 0 0	HOH HOH HOH HOH	138 139 140 141 142	32.311 26.404 24.546 64.483	40.520 40.444 29.367 32.976	18.168 7.377 -7.098 23.998	1.00 20.00 1.00 20.00 1.00 20.00 1.00 20.00 1.00 20.00	พ พ พ พ พ
ATOM END	4501		нон	143	59.735	32.976	8.443	1.00 20.00 1.00 20.00	W W

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B. subtillis ACP							G	P	L	G	S		D				R	V	T	K	I
E. coli ACP												S	T	I	E	E	R	V	K	K	I
Streptomyces coelicol	or A	A3(	(2)	A(	CP	M	A	T	L	L	T	T	D	D	L	R	R	A	Ĺ	V	E
I V D R L I G E Q L C A G E T	G G D	V	K	Q	E	•	E	v	K T D	N	N	A	S S L	F	v		D	L L I	G	A	D
40											50										60
SLDVV	E	L	v	М	E		L	E	D	E		ם	М	E	т	S	ח	E	ח	Δ	
SLDTV	E								E				T			P	D		E		
SLALM	E								S				v			P	_	D			
K I A T V K I T T V R V D T P	G Q R	A	A	I	D		Y	I	Q N N	G	H			E	A	A					

FIG. 4

	Atom_	Res.	.,	Y	z		
ATCM	Type Res		X 13.445	10.407	11.181	1.00	7,22
ATCM	2 CA GLY		14.143	11.725	11.174	1.00	5.61
ATCM	3 C GLY	· -5	14.807	11.951	9.811	100	5.70
ATOM	4 O GLY		14.370	12.786	9.043	1.00	5.61
ATOM	5 1HA GLY		14.899	11.735	11.944	1.00	6.68
ATOM ATOM	6 2HA GLY 7 1H GLY		13.427 13.304	12.512 10.082	11.362 10.204	1.00	7.06
ATOM	8 2H GLY	_	12.521	10.507	11.650	1.00	7.45 7.32
ATOM	9 3H GLY		14.022	9.712	11.696	1.00	7.59
ATOM	10 N PRO	-4	15.850	11.199	9.553	1.00	5.38
ATOM	11 CA PRO		16.579	11.330	8.267	1.00	4.86
ATOM	12 C PRO 13 O PRO		15.735 14.970	10.796	7.104	1.00	4.19
MOTA MOTA	13 O PRO 14 CB PRO		17.842	11.522 10.496	6.500 8.484	1.00	4.30 5.34
ATOM	15 CG PRO		17.475	9.509	9.545	1.00	5.78
ATOM	16 CD PRO		16.442	10.169	10.420	1.00	5.92
ATOM	17 HA PRO 18 1HB PRO		16.847	12.350	8.088	1.00	5.08
ATOM ATOM	18 1HB PRO 19 2HB PRO		18.652 18.117	11.121 9.986	8.826 7.571	1.00	5.86 5.21
ATOM	20 1HG PR		18.344	9.260	10.135	1.00	6.43
ATOM	21 2HG PR	0 -4	17.065	8.617	9.093	1.00	5.71
MOTA	22 2HD PR		15.694	9.451	10.728	1.00	6.14
ATOM	23 1HD PR		16.906	10.628	11.278	1.00	6.49
atom atom	24 N LE		15.866 15.072	9.543 8.976	6.782 5.655	1.00	3.93 3.68
ATOM	26 C LE		14.070	7.952	6.194	1.00	2.75
ATOM	27 O LE		13.707	7,972	7.353	1.00	2.91
ATOM	28 CB LE		16.012	8.295	4.657	1.00	4.75
ATOM '	29 CG LE 30 CD1 LE		15.555 16.304	8.610 9.840	3.231 2.715	1.00	5.69 6.59
ATOM	31 CD2 LE	-	15.856	7.414	2.324	1.00	6.39
ATOM	32 HN LE		16.487	8.977	7.275	1.00	4.25
ATOM	33 HA LE		14.537	9.772	5.159	1.00	3.87
MOTA MOTA	34 1HB LE 35 2HB LE		15.991 17.018	7.227 8.662	4.812	1.00	4.81 5.14
ATOM	36 HG LE		14.493	8.808	3.229	1.00	5.59
ATOM	37 1HD1 LE	<b>び -3</b>	16.849	10.297	3.527	1.00	6.91
MOTA	38 2HD1 LE		15.596	10.550	2.313	1.00	6.87
ATOM ATOM	39 3HD1 LE 40 1HD2 LE		16.995 15.148	9.542 7.394	1.940 1.509	1.00	6.92 6.75
ATOM	41 2HD2 LE		15.774	6.501	2.894	1.00	6.70
MOTA	42 3HD2 LE	T -3	16.857	7.504	1.929	1.00	6.55
ATOM	43 N GL		13.619	7.057	5.357	1.00	2.32 1.96
MOTA MOTA	44 CA GL 45 C GL		12.638 11.651	6.032 5.742	5.813 4.682	1.00	1.44
ATOM	46 O GL		11.709	4.710	4.043	1.00	2.05
ATOM	47 HN GI	Y -2	13.924	7.061	4.426	1.00	2.73
ATOM	48 1HA GI		12.099	6.404	6.671	1.00	2.15
atom atom	49 2HA GI 50 N SE	.Y -2 ER -1	13.163 10.749	5.126 6.649	6.080 4.425	1.00	2.61 1.07
ATOM		R -1	9.760	6.434	3.331	1.00	0.77
ATOM		IR -1	9.611	7.726	2.524	1.00	0.80
ATOM		ER -1	8.568	8.007	1.971	1.00	1.03
MOTA MOTA		er -1 er -1	8.407 7.911	6.049 7.134	3.931 4.704	1.00	1.06 1.57
ATOM		ER -1	10.724	7.476	4.950	1.00	1.67
MOTA	57 HA SI	ER -1	10.104	5.641	2.683	1.00	0.86
ATOM	58 1HB S		8.527	5.174	4.556	1.00	1.22
ATOM ATOM		er -1 er -1	7.709 8.481	5.826 7.240	3.140 5.469	1.00	1.21
ATOM		LA 1	10.648	8.520	2.454	1.00	0.84
ATOM	62 CA A	LA 1	10.567	9.797	1.687	1.00	0.86
MOTA		LA 1	9.992	9.530	0.293	1.00	
atom atom		LA 1 LA 1	8.843 11.967	9.816 10.400	0.019 1.556	1.00	
ATOM		La 1	11.478	8.281	2.909	1.00	1.01
ATOM	67 HA A	la 1	9.930	10.484	2.212	1.00	
ATOM	68 1HB A		12.031		2.156		
atom Atom	69 2HB A 70 3HB A		12.158 12.700		0.521 1.898		
ATOM		SP 2	10.779				0.80
ATOM	72 CA A	SP 2	10.273	8.677	-1.952	1.00	0.81
atom Atom		SP 2 SP 2 SP 2	9.341				
MOTA		SP 2 SP 2	8.421 11.451				
MOTA	76 CG A	SP 2	11.709	9.554	-3.802	1.00	1.59
MOTA	77 OD1 A	SP 2	11.953			1.00	

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ATCM	73		λSP	2	11.658	19.674	-3.321	1.00	2.20
ATCM	79	727	AS?	2	11.697	8.745	-0.338	1.00	0.81
ATCM	30	Ľλ	ASP	2	9.732	9.531			
ATCM	31	1HB	ASP	2			-2.331	1.00	0.85
	-				11.219	7.492	-3.473	1.00	1.31
ATOM	82		λSP	2	12.333	8.168	-2.285	1.00	1.14
ATOM	83	N	THR	3	9.573	6.601	-0.933	1.00	0.73
ATOM	84	CA	THR	3	8.709	5.399			
ATOM	95	C	THR	3			-0.783	1.00	0.69
					7.282	5.837	-0.452	1.00	0.66
ATOM	86	0	THR	3	6.372	5.666	-1.237	1.00	0.63
ATOM	87	CB	THR	3	9.253	4.534	0.355		
ATOM	88	0G1	THR	3	10.665			1.00	0.71
ATOM	89	CG2		ξ.		4.674	0.418	1.00	0.86
			THR	3	8.895	3.070	0.110	1.00	0.75
ATOM	90	HN	THR	3	10.319	6.744	-0.314	1.00	0.75
ATOM	91	HA	THR	3	8.708	4.830	-1.699		
ATOM	92	HB	THR	3				1.00	0.68
ATOM	93	HG1		3	8.819	4.855	1.287	1.00	0.70
				3	10.946	4.453	1.309	1.00	1.08
MOTA	94	1HG2	THR	3	9.527	2.442	0.720	1.00	1.26
ATOM	95	2HG2	THR	3	9.046	2.830	-0.932	1.00	1.33
ATOM	96	3HG2	THR	3	7.861	2.902			
MOTA	97	N	LEU	4			0.373	1.00	1.09
					7.086	6.404	0.709	1.00	0.68
ATOM	98	CX	LEU	4	5.721	6.862	1.118	1.00	0.68
MOTA	99	С	LEU	4	5.055	7.628	-0.025	1.00	0.66
ATOM	100	0	LEU	4	4.006	7.254	-0.507	1.00	
ATOM	101		LEU	4	5.838	7.776			0.66
ATOM	102						2.340	1.00	0.73
			LEU	4	4.566	7.670	3.182	1.00	0.77
ATOM	103	CD1	LEU	4	4.435	6.250	3.730	1.00	1.60
ATOM	104	CD2	LEU	4	4.643	8.660	4.346	1.00	1.36
ATOM	105		LEU	4	7.842	6.528	1 317		
ATOM	106		LEU				1.317	1.00	0.71
				4	5.119	6.006	1.370	1.00	0.67
ATOM	107		LEU	4	5.970	8.797	2.016	1.00	0.83
MOTA	108	2HB	LEU	4	6.688	7.473	2.933	1.00	0.83
ATOM	109	HG	LEU	4	3.708	7.900	2.567		
ATOM	110			i				1.00	1.32
ATOM	111				3.887	5.642	3.027	1.00	2.12
				4	3.907	6.274	4.672	1.00	2.07
ATOM	112			4	5.418	5.829	3.880	1.00	2.15
ATOM	113	1HD2	LEU	4	4.357	8.163	5.261	1.00	1.85
ATOM	114	2HD2	LEU	4	3.974	9.486	4.160	1.00	
ATOM	115			ì					1.90
					5.654	9.030	4.438	1.00	1.95
MOTA	116		GLU	5	5.659	8.695	-0.463	1.00	0.68
ATOM	117	CX	GLU	5	5.066	9.483	-1.577	1.00	0.69
ATOM	118	С	GLU	5	4.786	8.555	-2.760		
ATOM	119		GLU	5				1.00	0.64
				2	3.740	8.613	-3.375	1.00	0.64
ATOM	120		GLU	5	6.043	10.581	-2.002	1.00	0.75
ATOM	121	CG	GLU	5	5.579	11.925	-1.438	1.00	0.99
ATOM	122	CD	GLU	5	5.850	13.029	-2.462	1.00	1.53
MOTA	123		GLU	Š			2.170		
ATOM	124			5 5	6.673	13.884	-2.179	1.00	2.26
			GLU	حَ	5.229	13.000	-3.512	1.00	1.99
ATOM	125		GLU	5	6.501	8.976	-0.062	1.00	0.69
ATOM	126	HA	GLU	5	4.146	9.926	-1.243	1.00	0.70
MOTA	127	-	GLU	5	6.075	10.637			
ATOM	128		GLU				-3.080	1.00	0.92
				5	7.029	10.352	-1.624	1.00	1.03
ATOM	129		GLU	5	6.120	12.140	-0.529	1.00	1.46
MOTA	130		GLU	5	4.521	11.881	-1.226	1.00	1.41
MOTA	131	. N	ARG	6	5.709	7.688	-3.071	1.00	0.62
ATOM	132		ARG	Ğ	5.489	6.744	-4.201	1.00	
ATOM	133		ARG	6					0.60
ATOM					4.238	5.922	-3.903	1.00	0.55
	134		ARG	6	3.258	5.972	-4.619	1.00	0.57
MOTA	135		ARG	· 6	6.707	5.815	-4.337	1.00	0.61
ATOM	136		ARG	6	6.411	4.687	-5.334	1.00	0.59
MOTA	137		ARG	6	5.997	5.283	-6.680	1.00	0.64
ATOM	138		ARG	ĕ	6.941	4.821	-7.736		
ATOM	139							1.00	0.73
			ARG	6	6.995	5.442	-8.883	1.00	1.07
ATOM	140	NHI	ARG	6	8.123	5.952	-9.296	1.00	1.70
ATOM	141		ARG	6	5.922	5.553	-9.617	1.00	1.79
MOTA	142		ARG	6	6.539	7.651	-2.553	1.00	0.65
ATOM	143		ARG	6					
ATOM	144				5.348	7.300	-5.112	1.00	0.63
			ARG	6	6.935	5.384	-3.374	1.00	0.60
ATOM	145		ARG	6	7.555	6.383	-4.685	1.00	0.68
ATOM	146	1HG	ARG	6	5.610	4.072	-4.953	1.00	0.56
ATOM	147	2110	ÀRG	6	7.297	4.083	-5.466	1.00	0.61
ATOM	148		ARG	. 6					
ATOM	149			9	6.020	6.359	-6.620	1.00	0.67
			ARG	6	4.996	4.958	-6.921	1.00	0.64
ATOM	150		ARG	6	7.524	4.052	-7.569	1.00	0.94
ATOM	151		ARG	6	8.946	5.867	-8.734	1.00	2.17
ATOM	152		ARG	6	8.166	6.428	-10.175	1.00	2.13
MOTA	153	1HH2		Ğ	5.058	5.162	-9.301	1.00	2.29
MOTA	154			6					
				•	5.964	6.027	-10.496	1.00	2.19

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atom	155	N	$\Lambda Y \Gamma$	7	4.271	5.170	-2.343	1.00	0.53
ATCM	156	CA	VAL	7	3.097	4.343			
ATOM	157	C	VAL	7			-2.476	1.00	0.50
					1.864	5.236	-2.365	1.00	0.50
ATOM	158	0	VAL	7	0.777	4.868	-2.765	1.00	0.61
atom	159	CB	VAL	7	3.357	3.664	-1.133		
ATOM	160	CG1	VAL	7				1.00	0.52
					2.279	2.619	-0.378	1.00	0.56
ATOM	161	CG2	VAL	7	4.716	2.974	-1.166	1.00	0.53
ATOM	162	HN	VAL	<b>7</b> ·	5.070	5.152	-2.287		
ATOM	163	KA	VAL	7				1.00	0.56
				<u> </u>	2.938	3.596	-3.232	1.00	0.50
ATOM	164	HВ	VAL	7	3.342	4.402	-0.344	1.00	0.56
ATOM	165	1HG1	VAL	7	1.941	2.216	-1.821		
ATOM	166	2HG1		7				1.00	1.14
ATOM	167				1.453	3.079	-0.364	1.00	1.13
		3HG1		7	2.687	1.824	-0.272	1.00	1.23
ATOM	168	1HG2	VAL	7	4.783	2.275	-0.349	1.00	1.19
ATOM	169	2HG2	VAL	7	5.499	3.708			
ATOM	170	3HG2		ż			-1.076	1.00	1.06
					4.821	2.446	-2.098	1.00	1.15
ATOM	171	N	THR	8	2.028	6.411	-1.826	1.00	0.47
ATOM	172	CA	THR	8	0.871	7.335	-1.689	1.00	
ATOM	173	С	THR	8					0.49
ATOM					0.287	7.613	-3.071	1.00	0.47
	174	0	THR	8	-0.913	7.667	-3.250	1.00	0.50
ATOM	175	CB	THR	8	1.335	8.649	-1.054	1.00	0.58
ATOM	176	0G1	THR	8	1.898	8.384			
ATOM	177						0.223	1.00	0.63
		CG2	THR	8	0.143	9.594	-0.902	1.00	0.65
ATOM	178	HN	THR	8	2.915	6.685	-1.514	1.00	0.50
ATOM	179	HA	THR	8	0.120	6.877	-1.068		
ATOM	180	HB	THR	8				1.00	0.48
					2.077	9.112	-1.685	1.00	0.60
MOTA	181	HG1	THR	8	2.434	9.140	0.474	1.00	0.92
ATOM	182	1HG2	THR	8	-0.152	9.961	-1.874	1.00	
ATOM	183	2HG2	THR	8					1.18
	_				0.421	10.426	-0.272	1.00	1.17
ATOM	184	3HG2	THR	8	-0.683	9.062	-0.453	1.00	1.30
ATOM	185	N	LYS	9	1.127	7.777	-4.054	1.00	0.49
ATOM	186	CA	LYS	9	0.615				
ATOM	187			3		8.035	-5.425	1.00	0.51
		Ç	LYS	9	-0.093	6.777	-5.919	1.00	0.46
MOTA	188	0	LYS	9	-1.121	6.837	-6.563	1.00	0.50
ATOM	189	CB	LYS	9	1.782	8.373	-6.356	1.00	
ATOM	190	CG	LYS	ģ					0.57
				7	1.486	9.683	-7.088	1.00	0.83
ATOM	191	CD	LYS	9	2.733	10.570	-7.074	1.00	1.21
ATOM	192	CE	LYS	9	3.808	9.953	-7.971	1.00	1.47
ATOM	193	NZ	LYS	9					
				3	4.135	10.898	-9.075	1.00	2.31
ATOM	194	HN	LYS	9	2.091	7.718	-3.890	1.00	0.53
ATOM	195	HA.	LYS	9	-0.083	8.857	-5.402	1.00	0.54
ATOM	196	1 478	LYS	9	1.909				
				•		7.580	-7.077	1.00	0.71
ATOM	197		LYS	9	2.686	8.480	-5.774	1.00	0.75
ATOM	198	1HG	LYS	9	0.676	10.198	-6.594	1.00	1.43
ATOM	199	2110	LYS	9	1.208	9.469			
ATOM							-8.110	1.00	1.41
	200		LYS	9	3.110	10.646	-6.065	1.00	1.82
ATOM	201	2HD	LYS	9	2.479	11.554	-7.440	1.00	1.93
ATOM	202	1HE	LYS	9	3.441	9.026	-8.387		
ATOM	203			á				1.00	1.92
			LYS	9	4.696	9.759	-7.388	1.00	1.77
ATOM	204	1HZ	LYS	9	3.912	11.869	-8.779	1.00	2.74
ATOM	205	2HZ	LYS	9	3.575	10.653	-9.918	1.00	2.83
ATOM	206		LYS	ý					
					5.148	10.831	-9.300	1.00	2.62
ATOM	207	N	ILE	10	0.451	5.634	-5.608	1.00	0.43
ATOM	208	CA	ILE	10	-0.176	4.364	-6.036	1.00	0.44
ATOM	209	C	ILE	10	-1.459	4.137	-5.234	1.00	0.39
ATOM	210	ŏ	ILE	10	-2.527				
ATOM						3.977	-5.787	1.00	0.43
	211	CB	ILE	10	0.809	3.227	-5.777	1.00	0.48
atom	212	CGl	ILE	10	2.071	3.447	-6.615	1.00	0.57
ATOM	213	CG2	ILE	10	0.167	1.902	-6.165	1.00	0.53
ATOM	214	CD1							
				10	3.198	2.559	-6.086	1.00	0.73
ATOM	215	HN	ILE	10	1.276	5.610	-5.084	1.00	0.45
ATOM	216	HA	ILE	10	-0.409	4.410	-7.085	1.00	0.48
ATOM	217	HB	ILE	10	1.069	3.207	-4.729		
ATOM	218		77 =					1.00	0.47
				10	2.370	4.483	-6.548	1.00	0.65
ATOM	219			10	1.866	3.197	-7.646	1.00	0.65
ATOM	220		ILE	10	0.064	1.856	-7.238	1.00	1.15
ATOM		2HG2	ILE	10					
ATOM					-0.806	1.829	-5.704	1.00	1.10
	222	3HG2	ILE	10	0.791	1.090	-5.825	1.00	1.22
ATOM	223	1HD1	ILE	10	3.988	3.178	-5.689	1.00	1.17
ATOM	224	2HD1		10	3.585	1.952			
ATOM	225	3HD1					-6.391	1.00	1.28
ATOM			ILE	10	2.815	1.919	-5.305	1.00	1.36
	226	N	ILE	11	-1.363	4.126	-3.935	1.00	0.34
ATOM				11	-2.581	3.912			
	227	CA	ILE	T.T.					0 11
ATOM	227			11			-3.100	1.00	0.31
MOTA	227 228	C	ILE	11	-3.628	4.971	-3.443	1.00	0.33
MOTA MOTA	227 228 229	CO	ILE	11 11	-3.628 -4.692	4.971 4.674			
ATOM ATOM ATOM	227 228 229 230	C O CB	ILE ILE ILE	11	-3.628 -4.692	4.971 4.674	-3.443 -3.949	1.00 1.00	0.33
MOTA MOTA	227 228 229	C O CB	ILE	11 11	-3.628	4.971	-3.443	1.00	0.33

3704							
ATCM	232 CG2 ILE	11	-3.490	3.79			
ATOM	233 CD1 ILE	11	-0.869	3.73			0.37
atcm	234 HN ILE	11		3.10		1.00	0.43
ATCM	235 HA ILE		-0.492	4.26	0 -3.510	1.00	
ATOM		11	-2.985	2.93	3 -3.294		
ATOM		11	-1.859	5.03	3 -1.417		
	237 1HG1 ILE	11	-0.263	3.19			
ATOM	238 2HG1 ILE	11	-1.531	2.01			
atom	239 1HG2 ILE	11					0.69
ATOM	240 2HG2 ILE	īī	-3.237	3.81			1.09
ATOM	241 3HG2 ILE	ii	-3.903	2.82	5 -1.031	1.00	
ATOM	242 1HD1 ILE		-4.218	4.56	-0.996		
ATOM		11	-0.273	2.259	0.572		
ATOM		11	-1.797	3.109			
	244 3HD1 ILE	11	-0.328	4.018			
ATOM	245 N VAL	12	-3.331			1.00	
ATOM	246 CA VAL	12	-4.294	6.20		1.00	0.38
ATOM	247 C VAL	12		7.310			0.44
ATOM	248 O VAL	12	-4.862	7.187		1.00	0.48
ATOM	249 CB VAL		-6.050	7.016	-5.037	1.00	0.61
ATOM		12	-3.567	8.650	-3.286		0.49
ATOM		12	-4.535	9.795			
ATOM	251 CG2 VAL	12	-3.036	8.792			0.59
	252 HN VAL	12	-2.469	6.405		1.00	0.50
ATOM	253 HA VAL	12	-5.099	7.266		1.00	0.44
ATOM	254 HB VAL	12	-2.743			1.00	0.44
ATOM	255 1HG1 VAL	12		8.685		1.00	0.49
ATOM	256 2HG1 VAL		-4.123	10.421		1.00	0.94
ATOM	257 3HG1 VAL	12	-4.686	10.383		1.00	1.35
ATOM		12	-5.481	9.391	-3.914	1.00	1.23
ATOM		12	-3.716	9.401			
	259 2HG2 VAL	12	-2.064	9.261	-1.881	1.00	1.09
ATOM	260 3HG2 VAL	12	-2.954	7.815		1.00	1.15
ATOM	261 N ASP	13	-4.023			1.00	1.17
MOTA	262 CA ASP	13		7.287		1.00	0.45
ATOM	263 C ASP	13	-4.502	7.193		1.00	0.50
ATOM	264 O ASP		-5.372	5.947	-7.429	1.00	0.45
ATOM		13	-6.222	5.898	-8.296	1.00	0.49
ATOM		13	-3.296	7.112	-8.184	1.00	
ATOM	266 CG ASP	13	-3.751	7.364	-9.623	1.00	0.57
_	267 OD1 ASP	13	-2.914	7.729	-10.432		1.25
ATOM	268 OD2 ASP	13	-4.927	7.187	-10.432	1.00	1.87
ATOM	269 HN ASP	13	-3.073		-9.892	1.00	1.93
ATOM	270 HA ASP	13		7.433	-5.648	1.00	0.46
ATOM	271 1HB ASP	13	-5.081	8.068	-7.484	1.00	0.55
ATOM	272 2HB ASP		-2.851	6.132	-8.115	1.00	0.87
ATOM		13	-2.569	7.859	-7.899	1.00	0.86
ATOM		14	-5.161	4.935	-6.636	1.00	0.39
ATOM		14	-5.971	3.695	-6.791	1.00	
	275 C ARG	14	-7.082	3.633	-5.736		0.37
ATOM	276 O ARG	14	-8.198	4.056		1.00	0.32
ATOM	277 CB ARG	14	-5.049		-5.970	1.00	0.34
ATOM	278 CG ARG	14		2.479	-6.649	1.00	0.39
ATOM	279 CD ARG	14	-4.404	2.155	-8.004	1.00	0.48
ATOM	280 NE ARG		-3.757	3.413	-8.600	1.00	0.51
ATOM		14	-3.019	3.051	-9.842	1.00	0.62
ATOM		14	-1.795		-10.019	1.00	
	282 NH1 ARG	14	-0.833		-10.203	1.00	0.95
ATOM	283 NH2 ARG	14	-1.532	4.744	-10.203		1.69
ATOM	284 HN ARG	14	-4.465		-10.014	1.00	1.63
ATOM	285 HA ARG	14	-6.417	4.986	-5.949	1.00	0.37
ATOM	286 1HB ARG	14	-5.625	3.685	-7.774	1.00	0.42
Atom	287 2HB ARG	14		1.630	-6.314	1.00	0.38
ATOM	288 1HG ARG		-4.279	2.697	-5.923	1.00	0.37
ATOM	289 2HG ARG	14	-5.160	1.788	-8.682	1.00	0.51
ATOM		14	-3.648	1.395	-7.866	1.00	0.53
ATOM		14	-3.071	3.841	-7.885	1.00	0.50
ATOM		14	-4.525	4.136	-8.836	1.00	
ATOM	292 HE ARG	14	-3.453		-10.526		0.50
	293 1HH1 ARG	14	-1.035			1.00	0.87
ATOM	294 2HH1 ARG	14	0.105		-10.207	1.00	2.25
ATOM	295 1HH2 ARG	14		2.921	-10.340	1.00	2.08
atom	296 2HH2 ARG	14	-2.269 -0.504	5.405	-9.874	1.00	2.17
NOTA	297 N LEU		-0.594	5.062	-10.150	1.00	2.01
MOTA	298 CA LEU	15	-6.793	3.089	-4.585	1.00	0.30
HOTA		15	-7.832	2.971	-3.525	1.00	0.30
TOM		15	-8.196	4.357	-2.977	1.00	0.31
NOT	144	15	-9.146	4.505	-2.234	1.00	
TOM	301 CB LEU	15	-7.290	2.091	-2.391		0.37
	302 CG LEU	15	-7.351	0.607		1.00	0.34
MOT	303 CD1 LEU	15	-8.810		-2.790	1.00	0.39
MOT	304 CD2 LEU	15	-6.672	0.156	-2.885	1.00	0.45
TOM	305 HN LEU	15		0.393	-4.147		0.40
MOT	306 HA LEU	15	-5.893 -9.715	2.740	-4.421	1.00	0.33
TOM	307 1HB LEU		-8.715	2.510	-3.941	1.00	0.33
TOM	308 2HB LEU	15	-7.886	2.246	-1.504	1.00	0.37
	LEU	15	-6.266	2.365	-2.186	1.00	0.34

MOTA	309 HG LEU	15					
ATOM	310 1HD1 LEU		-6.843	0.017	-2.039	1.00	0.46
ATCM	311 2HD1 LEU	15	-8.986	-0.644	-2.180	1.00	1.16
ATOM	312 3HD1 LEU	15	-9.013	-0.197	-3.886	1.00	1.04
ATCM	313 1HD2 LEU	15	-9.459	0.987	-2.658	1.00	1.03
ATOM		15	-6.598	-0.665	-4.349	1.00	1.06
ATOM		15	-5.684	0.826	-4.127	1.00	1.08
ATOM		15	-7.258	0.867	-4.920	1.00	1.10
	316 N GLY	16	-7.456	5.373	-3.332	1.00	0.35
ATOM	317 CA GLY	16	-7.777	6.737	-2.822	1.00	
ATOM	318 C GLY	16	-9.065	7.239	-3.474	1.00	0.41
MOTA	319 O GLY	16	-9.782	8.042	-2.911		0.47
ATOM	320 HM GLY	16	-6.693	5.243	-3.931	1.00	0.72
ATOM	321 1HA GLY	16	-6.972	7.411	-3.951	1.00	0.40
ATOM	322 2HA GLY	16	-7.904	6.699		1.00	0.47
ATOM	323 N VAL	17	-9.364	6.771	-1.750	1.00	0.53
ATOM	324 CA VAL	17	-10.606	7.220	-4.656	1.00	0.45
MOTA	325 C VAL	17	-10.558	8.740	-5.348	1.00	0.66
ATOM	326 O VAL	17	-10.142	9.222	-5.551	1.00	0.76
ATOM	327 CB VAL	17	-11.826	6.835	-6.586	1.00	0.89
ATOM	328 CG1 VAL	17	-13.099		-4.504	1.00	0.86
ATOM	329 CG2 VAL	17	-11.930	7.397	-5.144	1.00	1.16
ATOM	330 HN VAL	17	-8.771	5.310	-4.433	1.00	1.06
ATOM	331 HA VAL	17	-10.671	6.123	-5.089	1.00	0.44
ATOM	332 HB VAL	17		6.737	-6.310	1.00	0.75
ATOM	333 1HG1 VAL	17	-11.717	7.235	-3.507	1.00	1.21
ATOM	334 2HG1 VAL	17	-13.187	8.447	-4.908	1.00	1.72
ATOM	335 3HG1 VAL	17	-13.958	6.868	-4.759	1.00	1.62
ATOM	336 1HG2 VAL		-13.048	7.272	-6.215	1.00	1.56
ATOM	337 2HG2 VAL	17	-11.288	4.942	-3.646	1.00	1.40
ATOM	338 3HG2 VAL	17	-11.624	4.884	-5.377	1.00	1.46
ATOM		17	-12.952	5.028	-4.225	1.00	1.47
ATOM		18	-10.979	9.498	-4.576	1.00	0.82
ATOM		18	-10.956	10.982	-4.720	1.00	0.99
ATOM		18	-9.777	11.555	-3.930	1.00	0.95
ATOM	- · · · · · · · · · · · · · · · · · · ·	18	-9.809	12.684	-3.481	1.00	1.75
ATOM		18	-12.263	11.567	-4.181	1.00	1.18
ATOM	344 CG ASP	18	-13.023	12.253	-5.318	1.00	1.80
ATOM	345 OD1 ASP	18	-14.122	11.816	-5.618	1.00	2.38
	346 OD2 ASP	18	-12.494	13.205	-5.868	1.00	2.37
ATOM	347 HN ASP	18	-11.311	9.093	-3.750	1.00	0.82
ATOM	348 HA ASP	18	-10.849	11.240	-5.763	1.00	1.08
ATOM	349 1HB ASP	18	-12.043	12.290	-3.410	1.00	1.24
ATOM	350 2HB ASP	18	-12.869	10.773	-3.769	1.00	1.48
ATOM	351 N GLU	19	-8.735	10.787	-3.758	1.00	0.64
ATOM	352 CA GLU	19	-7.554	11.288	-2.998	1.00	0.62
ATOM	353 C GLU	19	-7.952	11.554	-1.545	1.00	0.62
ATOM	354 O GLU	19	-8.124	12.685	-1.134	1.00	0.75
MOTA	355 CB GLU	19	-7.048	12.585	-3.635	1.00	0.77
ATOM	356 CG GLU	19	-6.935	12.402	-5.149	1.00	1.61
ATOM	357 CD GLU	19	-6.329	13.661	-5.772	1.00	
ATOM	358 OE1 GLU	19	-7.074	14.420	-6.371	1.00	2.10
ATOM	359 OE2 GLT	19	-5.130	13.846	-5.639	1.00	2.44
MOTA	√360 HN GLU	19	-8.729	9.880	-4.129		2.74
ATOM	361 HA GLU	19	-6.771	10.545	-3.023	1.00	1.15
MOTA	362 1HB GLU	19	-6.078	12.830	-3.230	1.00	
ATOM .	363 2HB GLU	19	-7.741	13.386	-3.419		0.89
MOTA	364 1HG GLU	19	-7.917	12.234	-5.566	1.00	1.28
ATOM	365 2HG GLU	19	-6.302	11.553	-5.363	1.00	2.13
ATOM	366 N ALA	20	-8.098	10.519	-0.763		2.05
ATOM	367 CA ALA	20	-8.482	10.700		1.00	0.53
MOTA	368 C ALA	20	-8.820	9.337	0.668	1.00	0.61
ATOM	369 O ALA	20	-8.444	9.022	1.269	1.00	0.58
ATOM	370 CB ALA	20	-9.705	11.617	2.381	1.00	0.64
ATOM	371 HN ALA	20	-7.952		0.767	1.00	0.71
ATOM	372 HA ALA	20	-7.658	9.617	-1.118	1.00	0.47
MOTA	373 1HB ALA	20	-10.511	11.136	1.209	1.00	0.68
ATOM	374 2HB ALA	20	-10.018	11.091	1.258	1.00	1.14
ATOM	375 3HB ALA	20	-9.450	11.909	-0.225	1.00	1.32
ATOM	376 N ASP	21	-3.430	12.497	1.338	1.00	1.30
ATOM	377 CA ASP	21	-9.531	8.527	0.536	1.00	0.54
ATOM	378 C ASP	21	-9.906 -8.650	7.180	1.043	1.00	0.58
ATOM	379 O ASP	21	-8.659	6.447	1.547	1.00	0.50
ATOM	380 CB ASP	21	-8.733 -10.544	5.602	2.418	1.00	0.53
ATOM	381 CG ASP	21	-10.544	6.378	-0.094	1.00	0.64
ATOM	382 OD1 ASP	21	-12.062	6.564	-0.065	1.00	0.76
ATOM	383 OD2 ASP	21	-12.679	6.398	-1.105	1.00	1.29
ATOM	384 HN ASP	21	-12.582	6.869	0.995	1.00	1.52
ATOM	385 HA ASP	21	-9.821 -10.614	8.807	-0.352	1.00	0.53
		4.4	-10.614	7.287	1.847	1.00	0.70

atom	386	1HB	ASP	21	-10.308	5.332	0.927	1 00	0 00
ATOM	387	283	λ5?	21	-10.156	6.726		1.00	0.92
ATOM	388	N	VAL	22			-1.040	1.00	0.83
ATOM	389				-7.516	6.762	1.004	1.00	0.44
		CA	VAL	22	-6.263	6.084	1.445	1.00	0.41
MOTA	390	C	VAL	22	-6.097	6.233	2.960	1.00	0.48
ATOM	391	0	VAL	22	-6.123	7.325	3.493		
ATOM	392	CB	VAL	22				1.00	0.64
ATOM	393				-5.068	6.726	0.737	1.00	0.45
		CG1		22	-5.007	8.213	1.086	1.00	0.90
MOTA	394	CGZ	VAL	22	-3.778	6.042	1.196	1.00	0.85
ATOM	395	HN	VAL	22	-7.481	7.445			
ATOM	396	HA	VAL	22			0.302	1.00	0.45
ATOM					-6.312	5.036	1.189	1.00	0.39
	397	HB	VAL	22	-5.179	6.612	-0.332	1.00	0.59
MOTA	398	1HG1		22	-4.269	8.699	0.465	1.00	1.54
ATOM	399	2HG1	VAL	22	-4.735	8.329	2.125		
ATOM	400	3HG1	VAT.	22	-5.973			1.00	1.43
ATOM	401			22		8.663	0.915	1.00	1.37
					-3.093	5.970	0.364	1.00	1.43
MOTA	402	2HG2		22	-4.006	5.051	1.561	1.00	1.32
MOTA	403	3HG2	VAL	22	-3.325	6.621	1.987	1.00	1.47
ATOM	404	N	LYS	23	-5.920	5.143	3.659		
ATOM	405	CA	LYS	23				1.00	0.43
ATOM					-5.745	5.225	5.138	1.00	0.54
	406	Ç	LYS	23	-4.981	3.996	5.638	1.00	0.62
ATOM	407	0	LYS	23	-5.383	2.870	5.424	1.00	1.44
ATOM	408	CB	LYS	23	-7.113	5.283	5.817	1.00	0.55
ATOM	409	CG	LYS	23	-7.843				
ATOM	410	CD				6.559	5.396	1.00	0.67
			LYS	23	-9.104	6.730	6.246	1.00	0.92
ATOM	411	CZ	LYS	23	-9.214	8.183	6.713	1.00	1.09
ATOM	412	NZ	LYS	23	-10.431	8.342	7.558	1.00	1.65
ATOM	413	- HN	LYS	23	-5.897	4.271			
ATOM	414	HA	LYS	23			3.211	1.00	0.41
ATOM					-5.187	6.117	5.382	1.00	0.69
	415		LYS	23	-6.980	5.282	6.888	1.00	0.72
MOTA	416	2HB	LYS	23	-7.694	4.422	5.525	1.00	0.65
ATOM	417	1HG	LYS	23	-8.119	6.490	4.355	1.00	0.82
ATOM	418		LYS	23	-7.192				
ATOM	419		LYS			7.410	5.541	1.00	0.94
ATOM				23	-9.048	6.081	7.107	1.00	1.18
	420		LYS	23	-9.972	6.473	5.657	1.00	1.22
ATOM	421	IHE	LYS	23	-9.285	8.833	5.854	1.00	1.63
ATOM	422	2HE	LYS	23	-8.339	8.443	7.290	1.00	
ATOM	423		LYS	23	-10.842	9.284	7 401		1.47
ATOM	424		LYS		-10.042		7.401	1.00	2.08
				23	-10.173	8.239	8.561	1.00	2.13
ATOM	425	3HZ	LYS	23	-11.129	7.615	7.303	1.00	2.14
ATOM	426	N	LEU	24	-3.886	4.211	6.311	1.00	0.81
ATOM	427	CA	LEU	24	-3.081	3.069	6.840		
ATOM	428	Ċ.	LEU					1.00	0.73
				24	-3.867	2.357	7.942	1.00	0.69
ATOM	429	0	LEU	24	-4.023	1.152	7.930	1.00	0.70
MOTA	430	CB	LEU	24	-1.776	3.606	7.434	1.00	0.87
ATOM	431	CG	LEU	24	-1.115	4.577	6.451	1.00	1.53
ATOM	432		LEU	24					
ATOM	433				-1.244	6.008	6.977	1.00	2.04
			LEU	24	0.368	4.229	6.308	1.00	2.10
ATOM	434	HM	LEU	24	-3.593	5.130	6.474	1.00	1.52
MOTA	435	HA	LEU	24	-2.859	2.370	6.040	1.00	0.66
ATOM	436	1HB	LEU	24	-1.107	2.784	7.632	1.00	0.95
ATOM	437	2 H B	LEU	24	-1.992				
ATOM	438					4.121	8.358	1.00	1.14
ATOM		HG	LEU	24	-1.600	4.502	5.489	1.00	1.99
	439	1HD1	LEU	24	-2.173	6.437	6.635	1.00	2.68
ATOM	440	2HD1	LEU	24	-0.418	6.601	6.611	1.00	2.35
ATOM	441	3HD1	LEU	24	-1.228	5.998	8.057	1.00	2.28
ATOM	442		LEI	24	0.656	3.547	7.094		
ATOM		2HD2	1 577	24				1.00	2.39
ATOM	444	3:55	250		0.957	5.132	6.383	1.00	2.56
				24	0.539	3.768	5.348	1.00	2.54
ATOM	445	N	GLU	25	-4.358	3.097	8.899	1.00	0.74
ATOM	446	CA	GLU	25	-5.129	2.472	10.011	1.00	0.78
ATOM	447	C	GLU	25	-6.410	1.828		1.00	
ATOM	448	ŏ	GLU				9.471		0.72
ATOM				25	-7.072	1.081	10.162	1.00	0.82
	449		GLU	25	-5.498	3.546	11.037	1.00	0.86
ATOM	450		GLU	25	-6.178	4.718	10.327	1.00	1.58
ATOM	451		GLU	25	-7.020	5.505	11.333	1.00	2.17
ATOM	452	OE1	GLU	25	-6.443	6.063	12.251	1.00	2.77
ATOM	453	OE2	GLU	25					
ATOM	454				-8.229	5.535	11.167	1.00	2.66
ATOM			GLU	25	-4.214	4.066	8.889	1.00	0.78
	455	HA	GLU		∕ <b>-4.522</b>	1.717	10.488	1.00	0.83
ATOM	456		GLU	25	-4.604	3.896	11.531	1.00	1.38
MOTA	457		GLU	25	-6.174	3.126	11.769	1.00	1.27
MOTA	458		GLU	25	-6.816	4.342			
ATOM	459		GLU	25			9.542	1.00	2.03
ATOM	460		ALA		-5.425	5.366	9.901	1.00	2.22
ATOM	461			26	-6.772	2.107	8.246	1.00	0.60
ATOM			<b>ALA</b>	26	-8.011	1.502	7.689	1.00.	0.57
~1017	462	С	<b>ALA</b>	26	-7.709	0.089	7.197	1.00	0.56
								_	

ATCM	463	O ALA	26		<b>a 2</b> a			
ATCM				-6.605	-0.216	6.792	1.00	0.53
	454	C3 ALA	26	-8.509	2.348	6.518	1.00	0.53
ATOM	465	HN ALA	26	-6.233	2.711	7.694	1.00	
ATOM	465	HA ALA	26	-8.771	1.464			0.57
ATOM	457	THE ALA	26			8.456	1.00	0.65
				-9.309	1.828	6.013	1.00	0.97
ATCM	468	2HB ALA	26	-7.698	2.516	5.826	1.00	1.13
atom	469	3HB ALA	26	-8.871	3.297	6.986		
ATOM	470	N SER	27				1.00	1.13
ATOM				-8.685	-0.776	7.217	1.00	0.60
	471	CA SER	27	-8.452	-2.165	6.738	1.00	0.63
ATOM	472	C SER	27	-8.524	-2.201			
ATOM	473	O SER	27			5.205	1.00	0.55
ATOM	474			-8.406	-3.247	4.599	1.00	0.58
		CB SER	27	-9.521	-3.091	7.320	1.00	0.74
ATOM	475	OG SER	27	8.923	-3.952	8.281	1.00	
ATOM	476	HN SER	27	-9.571	-0.509			1.33
ATOM .	477	HA SER	27			7.540	1.00	0.65
ATOM	478			-7.474	-2.496	7.059	1.00	0.65
		1HB SER	27	-9.963	-3.674	6.523	1.00	0.90
ATOM	479	2HB SER	27	-10.287	-2.504	7.799	1.00	
ATOM	480	HG SER	27	-9.122	-3.606			0.89
ATOM	481	N PHE				9.154	1.00	1.74
			28	-8.716	-1.070	4.570	1.00	0.50
MOTA	482	CA PHE	28	-8.791	-1.056	3.083	1.00	0.47
ATOM	483	C PHE	28	-9.968	-1.918	2.623		
ATOM	484	O PHE	28	-9.838			1.00	0.54
ATOM	485	CB PHE			-2.735	1.735	1.00	0.67
			28	-7.492	-1.620	2.506	1.00	0.44
ATOM	486	CG PHE	28	-6.555	-0.491	2.148	1.00	0.38
ATOM	487	CD1 PHE	28	-6.241	-0.238	0.807		
ATOM	488	CD2 PHE	28	-5.990			1.00	1.15
ATOM	489				0.296	3.158	1.00	1.29
			28	-5.363	0.800	0.478	1.00	1.15
ATOM	490	CE2 PHE	28	-5.114	1.335	2.826	1.00	1.28
ATOM	491	CZ PHE	28	-4.799	1.586	1.487		
ATOM	492	HN PHE	28				1.00	0.36
ATOM	493			-8.811	-0.234	5.067	1.00	0.51
		ha phe	28	-8.928	-0.042	2.739	1.00	0.46
ATOM	494	1HB PHE	28	-7.713	-2.196	1.622	1.00	0.45
ATOM	495	2HB PHE	28	-7.020	-2.257	3.240		
ATOM	496	HD1 PHE	28				1.00	0.49
ATOM				-6.674	-0.844	0.027	1.00	2.03
	497	HD2 PHE	28	-6.231	0.103	4.192	1.00	2.17
ATOM	498	HEL PHE	28	-5.118	0.991	-0.555	1.00	2.03
ATOM	499	HE2 PHE	28	-4.672	1.937	3.605		2.03
MOTA	500	HZ PHE	28			3.505	1.00	2.16
ATOM				-4.122	2.387	1.232	1.00	0.38
	501	N LYS	29	-11.117	-1.744	3.219	1.00	0.54
MOTA	502	CA LYS	29	-12.293	-2.561	2.806	1.00	0.61
ATOM	503	C LYS	29	-13.555	-2.051			
ATOM	504	O LYS	29			3.508	1.00	0.65
ATOM				-14.595	-1.901	2.899	1.00	0.69
	505	CB LYS	29	-12.056	-4.024	3.187	1:00	0.69
ATOM	506	CG LYS	29	-11.661	-4.114	4.662	1.00	0.73
ATOM	507	CD LYS	29	-10.890				
MOTA	508	CE LYS			-5.413	4.905	1.00	0.88
ATOM			29	-11.648	-6.277	5.915	1.00	1.61
	509	nz lys	29	-11.118	-7.669	5.873	1.00	2.16
MOTA	510	HN LYS	29	-11.205	-1.081	3.935	1.00	0.55
ATOM	511	HA LYS	29	-12.423				
ATOM	512			-12.123	-2.487	1.738	1.00	0.63
		1HB LYS	29	-11.262	-4.430	2.578	1.00	0.71
ATOM	513	2HB LYS	29	-12.962	-4.589	3.021	1.00	0.77
ATOM	514	1HG LYS	29	-12.550	-4.105	5.275	1.00	0.81
ATOM	515	2HG LYS	29	-11.037				
ATOM				-11.03/	-3.270	4.920	1.00	0.71
	515	1HD LYS	29	-9.910	-5.183	5.295	1.00	1.44
ATOM	517	2HD LYS	29	-10.789	-5.951	3.974	1.00	1.05
MOTA	518	THE LYS	29	-12.698	-6.284	5.666	1.00	2.05
ATOM	519	2HE LYS	29	-11.515	-5.871	6.907		
ATOM	520	1HZ LYS	29				1.00	2.21
ATOM	521			-10.140	-7.658	5.521	1.00	2.49
		2HZ LYS	29	-11.709	-8.246	5.240	1.00	2.47
ATOM	522	3HZ LYS	29	-11.134	-8.076	6.829	1.00	2.66
ATOM	523	n Glu	30	-13.475	-1.789	4.784	1.00	0.68
ATOM	524	CA GLU	30	-14.675				
ATOM	525				-1.297	5.518	1.00	0.78
		C Gra	30	-14.489	0.176	5.885	1.00	0.79
MOTA	526	o era	30	-15.443	0.895	6.108	1.00	0.96
ATOM	527	CB GLU	30	-14.863	-2.118	6.795	1.00	0.91
MOTA	528	CG GLT	30	-13.616	-1.990			
ATOM	529	CD Gra		-13.010		7.672	1.00	1.39
ATOM			30	-13.876	-2.645	9.030	1.00	1.76
	530	OE1 GLU	30	-14.797	-2.217	9.705	1.00	2.17
ATOM	531	OE2 GLU	30	-13.148	-3.563	9.372	1.00	2.28
ATOM	532	HN GLU	30	-12.628				
ATOM	533	HA GLU			-1.921	5.259	1.00	0.68
ATOM	534		30	-15.548	-1.404	4.891	1.00	0.79
		1HB GLU	30	-15.015	-3.155	6.538	1.00	1.32
ATOM	535	2HB GLU	30	-15.724	-1.750	7.336	1.00	1.25
ATOM	536	1HG GLU	30	-13.383	-0.946	7.817	1.00	
ATOM	537	2HG GLU	30					1.81
ATOM	538	N ASP		-12:784	-2.481	7.187	1.00	1.80
ATOM			31	-13.269	0.632	5.956	1.00	0.73
	539	CA ASP	. 31	-13 029	2.057	6.316	1.00	0.75

4-03	540 C ASP	21					
		31	-13.291	2.949	5.101	1.00	9.72
ATCM	541 O ASP	31	-14.213	3.734	5.084	1.00	
atcm	542 CB ASP	31	-11.580	2.233			0.77
MOTA	543 CG ASP				6.772	1.00	0.76
		31	-11.555	2.867	8.164	1.00	0.98
ATOM	544 OD1 ASP	31	-11.051	3.971			
ATOM	545 OD2 ASP	31			8.281	1.00	1.57
			-12.042	2.237	9.088	1.00	1.51
ATOM	546 HN ASP	31	-12.511	0.037	5.777		
ATOM	547 HA ASP	31				1.00	0.77
ATOM	101		-13.694	2.341	7.119	1.00	0.83
	548 1HB ASP	31	-11.059	2.874	6.077		
ATOM	549 2HB ASP	31	-11.094			1.00	0.84
ATOM			-11.094	1.268	6.806	1.00	0.92
		32	-12.479	2.840	4.085	1.00	
ATOM	551 CA LEU	32	-12.683	3.690			0.66
ATOM					2.878	1.00	0.68
		32	-13.430	2.898	1.801	1.00	0.66
ATOM	553 O LEU	32	-13.403	3.242			
ATOM	554 CB LEU	32	13.403		0.636	1.00	0.69
ATOM			-11.324	4.140	2.335	1.00	0.67
	. 555 CG LEU	32	-10.498	2.919	1.926	1.00	
ATOM	556 CD1 LEU	32	-10.282				0.51
MOTA	557 CD2 LEU			2.930	0.411	1.00	0.49
		32	-9.139	2.967	2.629	1.00	0.57
MOTA	558 HN LEU	32	-11.733	2.205			0.37
ATOM	559 HA LEU	32			4.117	1.00	0.65
ATOM			-13.264	4.559	3.149	1.00	0.75
	560 1HB LEU	32	-10.796	4.690	3.099	1.00	
MOTA	561 2HB LEU	32	-11.476	4.775			0.77
MOTA			-11.470	4.//5	1.476	1.00	0.74
		32	-11.022	2.017	2.210	1.00	0.56
ATOM	563 1HD1 LEU	32	-9.459	3.585			
ATOM	564 2HD1 LEU				0.170	1.00	1.07
		32	-11.178	3.282	-0.078	1.00	1.15
ATOM	565 3HD1 LEU	32	-10.057	1.930	0.073		
ATOM	566 1HD2 LEU	32		1.330		1.00	1.12
ATOM			-9.200	3.620	3.487	1.00	1.17
	567 2HD2 LEU	32	-8.393	3.341	1.944	1.00	
ATOM	568 3HD2 LEU	32	-8.865		2.27		1.18
ATOM				1.973	2.952	1.00	1.13
		33	-14.103	1.843	2.178	1.00	0.69
ATOM	570 CA GLY	33	-14.856	1.035	1.172		
ATOM	571 C GLY	33				1.00	0.74
ATOM			-13.937	0.672	0.002	1.00	0.68
	572 O GLY	33	-13.951	1.310	-1.031	1.00	0.89
MOTA	573 HN GLY	33	-14.117				
ATOM	574 1HA GLY			1.583	3.122	1.00	0.71
		33	-15.692	1.609	0.803	1.00	0.82
MOTA	575 2HA GLY	33	-15.219	0.130	1.639		
ATOM	576 N ALA	34				1.00	0.79
			-13.139	-0.347	0.158	1.00	0.60
MOTA	577 CA ALA	34	-12.220	-0.751	-0.944	1.00	
ATOM	578 C ALA	34	-12.385				0.59
				-2.246	-1.225	1.00	0.74
ATOM	579 O ALA	34	-12.732	-3.016	-0.352	1.00	1.25
ATOM	580 CB ALA	34	-10.776				
ATOM			-10.776	-0.467	-0.531	1.00	0.58
		34	-13.144	-0.848	0.999	1.00	0.70
ATOM	582 HA ALA	34	-12.456				
ATOM				-0.188	-1.836	1.00	0.61
		34	-10.160	-1.322	-0.767	1.00	1.11
ATOM	584 2HB ALA	34	-10.736	-0.277	0.532	1.00	
ATOM	585 3HB ALA	34					1.13
ATOM			-10.411	0.397	-1.065	1.00	1.26
	586 N ASP	35	-12.137	-2.664	-2.435	1.00	0.85
ATOM	587 CA ASP	35	-12.278				
ATOM				-4.109	-2.766	1.00	0.96
		35	-10.994	-4.844	-2.373	1.00	0.88
atom	589 O ASP	35	-9.903	-4.405	-2.673		
ATOM	590 CB ASP	35				1.00	1.15
			-12.518	-4.270	-4.268	1.00	1.06
MOTA	591 CG ASP	35	-14.012	-4.465	-4.529	1.00	
ATOM	592 OD1 ASP	35					1.59
ATOM	593 / OD2 ASP		-14.343	-5.156	-5.479	1.00	2.24
		35	-14.801	-3.920	-3.775	1.00	2.05
MOTA	594 HN ASP	35	-11.856	-2.027	-3.126	1.00	
ATOM	595 HA ASP						1.21
		35	-13.112	-4.525	-2.220	1.00	1.09
ATOM	596 1HB ASP	35	-11.976	-5.131	-4.630	1.00	1.23
ATOM	597 2HB ASP	35	-12.173	-3.385			
MOTA					-4.784	1.00	1.26
		36	-11.115	-5.959	-1.703	1.00	0.89
MOTA	599 CA SER	36	-9.900	-6.722	-1.287		
ATOM	600 C SER	36				1.00	0.81
ATOM			-8.959	-6.897	-2.484	1.00	0.68
	601 O SER	3,6	-7.754	-6.968	-2.334	1.00	0.59
ATOM	602 CB SER	36	-10.318				
ATOM				-8.098	-0.765	1.00	0.98
		36	-9.565	-8.406	0.401	1.00	1.69
ATOM	604 HN SER	36	-12.006	-6.296	-1.471	1.00	1.17
ATOM	605 HA SER	36					
ATOM			-9.388	-6.182	-0.504	1.00	0.77
	606 1HB SER	36	-10.138	-8.842	-1.529	1.00	1.34
atom	607 2HB SER	36	-11.366				
ATOM				-8.088	-0.517	1.00	1.43
	***	36	-9.931	-9.204	0.789	1.00	1.97
ATOM	609 N LEU	37	-9.500	-6.962	-3.669		0.75
ATOM	610 CA LEU	37				1.00	
ATOM			-8.639	-7.128	-4.873	1.00	0.71
	444	37	-7.830	-5.851	-5.100	1.00	0.58
ATOM	612 O LEU	37	-6.627	-5.829			
ATOM	613 CB LEU				-4.932	1.00	0.48
ATOM		37	-9.519	-7.400	-6.095	1.00	0.89
	614 CG LEU	37	-9.382	-8.867	-6.506	1.00	1.19
ATOM	615 CD1 LEU	37	-10.764				
ATOM			-10./04	-9.524	-6.524	1.00	1.60
	ele CDS FEA	37	-8.761	-8.950	-7.902	1.00	1.59

ATOM	617	HN	LEU	37	-10.473	-6.899			_
ATCM	518	HA	LEU	37			-3.768	1.00	0.86
					-7.967	-7.955	-4.723	1.00	0.69
ATOM	619	1HB	LEU	37	-9.205	-6.769	-6.913	1.00	
ATOM	620	2HB	LEU	37	-10.550				1.09
ATOM	621		_	-		-7.188	-5.850	1.00	1.05
		HG	LEU	37	-8.749	-9.381	-5.797	1.00	1.47
ATOM	622	1HD1	LEU	37	-10.858	-10.190	-5.680		
ATOM	623	2HD1		37				1.00	1.91
						-10.084	-7.440	1.00	1.89
ATOM	624	3HD1	LEU	37	-11.526	-8.760	-6.467	1.00	2.22
ATOM	625	1HD2	I.FTI	37	-7.695	-9.098			
ATOM	626						-7.814	1.00	2.04
				37	-8.954	-8.031	-8.436	1.00	2.00
ATOM	627	3HD2	LEU	37	-9.197	-9.778	-8.441		
ATOM	628	N	ASP	38	-8.484			1.00	1.94
						-4.788	-5.481	1.00	0.65
ATOM	629	CA	ASP	38	-7.766	/-3.500	-5.725	1.00	0.59
ATOM	630	C	λSP	38	-6.831	-3.189	-4.553		
ATOM	631	0	ASP	38				1.00	0.44
					-5.759	-2.645	-4.727	1.00	0.41
ATOM	632	CB	λSP	38	-8.788	-2.371	-5.872	1.00	0.69
ATOM	633	CG	λSP	38	-9.146	-2.193	-7.348		
ATOM	634	ODI	ASP	38				1.00	1.07
ATOM					-8.496	-1.395	-8.003	1.00	1.42
	635		ASP	38	-10.063	-2.859	-7.799	1.00	1.84
ATOM	636	HN	λSP	38	-9.453	-4.837	-5.607		
MOTA	637	HA	ASP	38	-7.188			1.00	0.78
ATOM						-3.576	-6.631	1.00	0.63
	638		ASP	38	-8.367	-1.452	-5.492	1.00	0.71
ATOM	639	2HB	ASP	38	-9.679	-2.618	-5.312	1.00	
ATOM	640	N	VAL	39					0.85
					-7.233	-3.531	-3.364	1.00	0.40
MOTA	641	CA	VAL	39	-6.377	-3.258	-2.176	1.00	0.28
ATOM	642	C	VAL	39	-5.035	-3.973			
ATOM	643	ŏ	VAL	39			-2.332	1.00	0.23
					-4.023	-3.363	-2.622	1.00	0.24
ATOM	644	CB	VAL	39	-7.091	-3.771	-0.925	1.00	0.36
ATOM	645	CG1	VAL	39	-6.191	-3.593			
ATOM	646						0.300	1.00	0.35
		CG2	VAL	39	-8.387	-2.982	-0.732	1.00	0.44
ATOM	647	HN	VAL	39	-8.102	-3.968	-3.250	1.00	0.48
ATOM	648	HA	VAL	39	-6.208				
ATOM	649					-2.197	-2.086	1.00	0.26
			VAL	39	-7.324	-4.819	-1.049	1.00	0.43
ATOM	650	1HG1	VAL	39	-5.837	-2.575	0.342	1.00	1.08
ATOM	651	2HG1	VAT.	39	-5.347	-4.263	0.226		
ATOM	652							1.00	1.05
				39	-6.751	-3.817	1.195	1.00	1.09
MOTA	653	1HG2	VAL	39	-8.832	-2.782	-1.695	1.00	1.04
ATOM	654	2HG2	VAL	39	-8.171	-2.047			
ATOM	655						-0.238	1.00	1.11
			VAL	39	-9.074	-3.558	-0.131	1.00	1.17
ATOM	656	N	VAL	40	-5.016	-5.259	-2.138	1.00	0.27
ATOM	657	CA	VAL	40	-3.738				
ATOM						-6.006	-2.270	1.00	0.28
	658	Ç	VAL	40	-3.217	-5.866	-3.701	1.00	0.34
ATOM	659	0	VAL	40	-2.029	-5.932	-3.947	1.00	0.39
ATOM	660	CB	VAL	40	-3.967				
						-7.479	-1.937	1.00	0.33
ATOM	661		VAL	40	-2.616	-8.175	-1.764	1.00	0.39
ATOM	662	CG2	VXL	40	-4.763	-7.582	-0.633	1.00	0.36
ATOM	663	HN	VAL	40	-5.841				
ATOM	664					-5.731	-1.902	1.00	0.33
		HA	VAL	40	-3.011	-5.593	-1.585	1.00	0.29
ATOM	665	HB	VAL	40	-4.517	-7.950	-2.738	1.00	0.37
ATOM	666	1HG1	VXI.	40	-2.571	-9.038		1.00	
ATOM	667						-2.410		1.10
				40	-2.501	-8.487	-0.736	1.00	1.06
MOTA	668		VAL	40	-1.822	-7.489	-2.023	1.00	1.10
ATOM	669	1HG2	VAT.	40	-4.781	-6.617			
ATOM		2202	173.5				-0.146	1.00	0.94
	670		ملہ۷	40	-4.295	-8.304	0.019	1.00	1.11
ATOM	671	3HG2		40	-5.773	-7.893	-0.851	1.00	1.14
ATOM	672	N	GLU	41	-4.092	-5.659	-4.648	1.00	0.41
ATOM	673		GLU	41					
ATOM					-3.631	-5.500	-6.055	1.00	0.51
	674		GLU	41	-2.789	-4.231	-6.151	1.00	0.51
ATOM	675	0	GLU	41	-1.819	-4.167	-6.880	1.00	0.58
ATOM	676		GLU	41	-4.835				
ATOM	677					-5.384	-6.993	1.00	0.61
			GLU	41	-5.390	-6.780	-7.288	1.00	1.01
ATOM	678		<b>GLD</b>	41	-5.370	-7.028	-8.798	1.00	1.59
ATOM	679	OEI	GLU	41	-6.230	-7.753	-9.270	1.00	2.19
ATOM	680					- 7.133			
				41	-4.495	-6.489	-9.455	1.00	2.21
ATOM	681		CLU	41	-5.047	-5.598	-4.433	1.00	0.44
ATOM	682	HA	<b>GL</b> A	41	-3.032	-6.352	-6.337	1.00	0.56
ATOM	683		GLU	41					
ATOM	684				-4.526	-4.920	-7.917	1.00	0.94
			GLU	41	-5.599	-4.781	-6.525	1.00	1.01
MOTA	685	IHG	GLU	41	-6.405	-6.848	-6.927	1.00	1.36
ATOM	686		GLU	41	-4.780				
ATOM	687					-7.521	-6.792	1.00	1.61
			LEU	42	-3.149	-3.219	-5.409	1.00	0.45
ATOM	688		LEU	42	-2.365	-1.956	-5.447	1.00	0.46
ATOM	689	C	LEU	42	-1.024	-2.187	-4.737		
ATOM	690		LEU					1.00	0.43
ATOM	691	_		42	-0.009	-1.626	-5.098	1.00	0.52
			LEU	42	-3.180	-0.825	-4.778	1.00	0.46
ATOM	692		LEU	42	-2.874	-0.710	-3.279	1.00	0.87
ATOM	693	CD1	LEU	42	-1.690	0.235	-3.071	1.00	
					-2.030	0.233	-2.011	1.00	1.15

ATOM	694	CD2	LEU	42				_	
MCTA	695		LEU	42	-4.092	-0.147	-2.560	1:00	1.39
					-3.930	-3.296	-4.822	1.00	0.43
ATCM	696		LEU	42	-2.178	-1.691	-6.473	1.00	0.52
atom	697	1HB	LEU	42	-4.234	-I.027	-4.907	1.00	0.85
ATOM	698	2HB	LEU	42	-2.942	0.112	-5.257	1:00	0.83
ATOM	699	HĠ	LEU	42	-2.637	-1.684	-2.880		
ATOM	700			42	-2.027			1.00	1.56
MCTA	701			42		1.256	-3.162	1.00	1.75
ATOM	702				-0.934	0.040	-3.816	1.00	1.50
			LEU	42	-1.274	0.081	-2.086	1.00	1.69
ATOM	703		LEU	42	-3.938	-0.210	-1.495	1.00	1.86
ATOM	704		LEU	42	-4.965	-0.718	-2.835	1.00	1.81
ATOM	705		LEU	42	-4.230	0.886	-2.845	1.00	1.85
ATOM	706	N	VAL	43	-1.026	-3.011	-3.726	1.00	
ATOM	707	CA	VAL	43	0.229	-3.290	-2.979		0.34
ATOM	708	C	VAL	43	1.149		-2.3/3	1.00	0.35
ATOM	709	ŏ	VAL	43		-4.160	-3.844	1.00	0.41
ATOM	710	СВ	VAL		2.345	-4.208	-3.638	1.00	0.46
ATOM	711			43	-0.110	-4.011	-1.669	1.00	0.32
			VAL	43	1.073	-3.915	-0.702	1.00	0.36
ATOM	712		VAL	43	<b>-1.335</b>	-3.350	-1.025	1.00	0.28
ATOM	713		VAL	43	-1.861	-3.449	-3.455	1.00	0.30
MOTA	714		VAL	43	0.727	-2.357	-2.756	1.00	0.37
ATOM	715	HB	VAL	43	-0.326	-5.049	-1.875	1.00	0.33
ATOM	716	1HG1	VAL.	43	1.436	-4.906	-0.477		
MOTA	717			43	0.754			1.00	1.09
ATOM	718			43		-3.433	0.211	1.00	1.03
ATOM	719				1.863	-3.336	-1.156	1.00	1.03
ATOM	720			43	-1.282	-3.460	0.048	1.00	1.02
			VAL	43	-2.234	-3.823	-1.392	1.00	1.08
ATOM	721		VAL	- 43	-1.352	-2.300	-1.278	1.00	1.03
ATOM	722		MET	44	0.604	-4.832	-4.826	1.00	0.49
ATOM	723	CX	MET	44	1.459	-5.671	-5.714	1.00	0.57
ATOM	724	C	MET	44	2.190	-4.745	-6.681	1.00	0.55
ATOM	725	0	MET	44.	3.393	-4.811	-6.839		
ATOM	726		MET	44	0.586	-6.657	-6.495	1.00	0.56
ATOM	727		MET	44				1.00	0.68
ATOM	728			-	0.221	-7.839	-5.595	1.00	1.06
ATOM		_	MET	44	-0.272	-9.247	-6.619	1.00	1.46
	729		MET	44	1.352	-9.575	-7.347	1.00	1.81
ATOM	730	HN	MET	44	-0.359	-4.771	-4.990	1.00	0.55
MOTA	731		MET	44	2.181	-6.210	-5.119	1.00	0.58
ATOM	732		MET	44	1.130	-7.017	-7.355	1:00	1.17
ATOM	733	2HB	MET	44	-0.316	-6.159	-6.821	1.00	1.16
ATOM	734	1HG	MET	44	-0.598	-7.559	-4.949	1.00	1.57
ATOM	735		MET	44	1.076	-8.112			
ATOM	736		MET	44			-4.994	1.00	1.52
ATOM	737				2.110	-9.511	-6:578	1:00	2.32
ATOM			MET	44	1.558	-8.846	-8.113	1.00	2.24
	738		MET	44		-10.565	-7.783	1.00	2.15
ATOM	739		GLU	45	1.481	-3.839	-7.294	1.00	0.58
MOTA	740		GLU	45	2.154	-2.876	-8.203	1.00	0.59
ATOM	741	С	GLU	45	3.160	-2.100	-7.359	1.00	0.51
MOTA	742	0	GLU	45	4.171	-1.625	-7.838	1.00	0.52
ATOM	743	CB	GLU	45	1.123	-1.914	-8.799	1.00	0.67
MOTA	744		GLU	45	0.611	-2.473	-10.127		
ATOM	745		GLU	45	0.712	-2.4/3		1.00	0.96
ATOM	746					-1.395	-11.207	1.00	1.53
ATOM	747		GLU	45	0.872		-12.362	1.00	2.25
			GLU	45	0.629		-10.861	1.00	2.10
ATOM	748		GLU	45	0.525	-3.766	-7.122	1.00	0.63
ATOM	749		GLU	45	2.666	-3.408	-8.992	1.00	0.64
ATOM	750		GLU	45	1.583	-0.953	-8.968	1.00	0.84
ATOM	751		GLU	45	0.296	-1.803	-8.112	1.00	0.90
ATOM	752		GLU	45	-0.420	-2.775	-10.018	1.00	1.52
YLOH	753	2HG	GLU	45	1.209	-3.327	-10.412	1.00	1.38
Atom	754	N	LEU	46	2.885	-1.998	-6.085	1.00	0.49
MOTA	755		LEU	46	3.802	-1.295	-5.167	1.00	0.49
ATOM	756		LEU	46	5.087			1.00	
ATOM	757		LEU	46		-2.123	-5.049	1.00	0.51
ATOM	758		LEU		6.184	-1.602	-5.102	1.00	0.55
ATOM	759			46	3.094	-1.150	-3.803	1.00	0.53
ATOM	760		LEU	46	4.097	-0.970	-2.657	1.00	0.73
ATOM			LEU	46	3.689	0.231	-1.809	1.00	1.49
	761		LEU	46	4.097	-2.224	-1.783	1.00	0.80
ATOM	762		LEU	46	2.070	-2.405	-5.727	1.00	0.51
ATOM	763		LEU	46	4.026	-0.325	-5.568	1.00	0.52
ATOM	764		LEU	46	2.502	-2.034	-3.619	1.00	0.70
ATOM	765	2HB	LEU	46	2.441	-0.291	-3.836	1.00	1.00
ATOM	766	HG	LEU	46	5.085	-0.809	-3.058	1.00	1.40
ATOM	767	1HD1	LEU	46	2.900	-0.058	-1.131	1.00	1.92
ATOM	768	2HD1	LEU	46	3.340	1.025		1.00	
ATOM	769	3HD1	LEU	46	4.540		-2.452		2.10
ATOM	770		LEU	46		0.573	-1.245	1.00	1.98
	_				3.701	-3.056	-2.347	1.00	1.41

ATOM	771	2HD2	LEU	46	3.483	-2.055	-0.911	1.00	1 46
ATOM		3 KD2	LEU	46	5.108	-2.448	-1.474	1.00	1.46
ATCM	773	N	GLU	47	4.953	-3.411	-4.893	1.00	0.52
ATCM	774 .	CA	GLU	47	6.159	-4.272	-4.774	1.00	0.59
MOTA	775	C	GLU	47	7.005	-4.126	-6.044	1.00	0.63
ATOM	776	0_	GLU	47	8.201	-4.333	-6.036	1.00	0.72
ATOM	777 . 778	CB	GLU	47	5.730	-5.737	-4.544	1.00	0.63
ATOM ATOM	779	CG	GLU	47	5.269	-6.406	-5.847	1.00	0.80
ATOM	780	CD OE1	GLU-	47 47	6.145	-7.629	-6.129	1.00	1.30
ATOM	781	OE2		47	6.898 6.046	-7.585	-7.088	1.00	1.82
ATOM	782	HN	GLU	47	4.059	-8.588 -3.808	-5.383 -4.855	1.00	1.94
ATOM	783	HA	GLU	47	6.742	-3.941	-3.928	1.00	0.52 0.62
ATOM	784	1HB		47	4.915	-5.754	-3.836	1.00	0.82
ATOM	785	2HB		47	6.561	-6.291	-4.139	1.00	1.08
ATOM	786	1HG		47	5.351	-5.713	-6.665	1.00	1.31
ATOM	787	2HG		47	4.241	-6.717	-5.742	1.00	1.15
MOTA MOTA	788 789	N	ASP	48	6.385	-3.762	-7.136	1.00	0.61
MOTA	790	CA C	ASP ASP	48	7.146	-3.595	-8.406	1.00	0.68
ATOM	791	ò	ASP	48 48	7.796 8.818	-2.208	-8.433	1.00	0.68
ATOM	792	СB	ASP	48	6.192	-2.005 -3.735	-9.059 -9.504	1.00	0.77
ATOM	793	CG	ASP	48	6.564		-9.594 -10.404	1.00	0.71
ATOM	794	OD1		48	7.450	-4.875	-11.236	1.00	1.07 1.68
ATOM	795	OD2		48	5.956		-10.179	1.00	1.70
MOTA	796	HN	ASP	48	5.416	-3.599	-7.119	1.00	0.58
ATOM	797	HA	ASP	48	7.913	-4.353	-8.468	1.00	0.72
ATOM	798	1HB		48	6.270	-2.861	-10.223	1.00	0.96
ATOM	799	2HB		48	5.179	-3.830	-9.231	1.00	0.93
ATOM	800	N	GLU	49	7.213	-1.252	-7.760	1.00	0.62
MOTA MOTA	801	CX	GLU	49	7.802	0.119	-7.752	1.00	0.64
ATOM	802 803	C	GLU	49	9.142	0.095	-7.021	1.00	0.67
ATOM	804	CB	CLU	49 49	10.146 6.854	0.557 1.089	-7.526 -7.036	1.00	0.73
ATOM	805	CG	GLU	49	6.170	1.991	-8.065	1.00	0.60 0.73
ATOM	806	CD	GLU	49	5.346	1.135	-9.027	1.00	1.80
ATOM	807	OEL	GLU	49	4.143	1.059	-8.840	1.00	2.54
ATOM	808		GLU	49	5.931	0.570	-9.936	1.00	2.46
ATOM	809	HM	CLU	49	6.390	-1.435	-7.262	1.00	0.58
ATOM	810	HA	GLU	49	7.954	0.449	-8.766	1.00	0.68
MOTA	811		Gra	49	7.418	1.699	-6.345	1.00	0.65
ATOM ATOM	812		GLU	49	6.106	0.529	-6.493	1.00	0.54
ATOM	813 814		GLU	49 49	6.919	2.535	-8.621	1.00	1.00
ATOM	815	N	PHE	50	5.521 9.16 <b>4</b>	2.689 -0.432	-7.555 -5.833	1.00	0.99
ATOM	816	ĊA	PHE	50	10.441	-0.479	-5.832 -5.058	1.00	0.63 0.67
ATOM	817	Ċ	PHE	50	11.064	-1.877	-5.159	1.00	0.70
ATOM	818	0	PHE	50	11.991	-2.201	-4.445	1.00	0.76
MOTA	819	CB	PHE	50	10.178	-0.152	-3.579	1.00	0.64
ATOM	820	CG	PHE	50 ·	9.051	0.851	-3.455	1.00	0.60
ATOM	821		PHE	50	9.313	2.223	-3.550	1.00	1.31
ATOM	822		PHE	50	7.743	0.401	-3.246	1.00	1.23
ATOM	823		PHE	50	8.264	3.145	-3.434	1.00	1.27
MOTA MOTA	824 825	CZ	PHE	50	6.697	1.322	-3.132 -3.224	1.00	1.25
ATOM	826	HN	PHE	50 50	6.954 8.339	2.693 -0.793	-5.444	1.00	0.56 0.58
ATOM	827	HA	PHE	50	11.130	0.247	-5.466	1.00	0.72
ATOM .	828		PHE	50	11.073	0.261	-3.140	1.00	0.70
MOTA	829	2HB	PHE	50	9.908	-1.057	-3.056	1.00	0.63
ATOM	830	HD1	PHE	50	10.322	2.571	-3.710	1.00	2.14
ATOM	831	HD2	PHE	50	7.541	-0.657	-3.174	1.00	2.03
ATOM ATOM	832		PHE	50	8.465	4.203	-3.508	1.00	2.08
ATOM	833 834		PHE	50	5.691	0.975	-2.971	1.00	2.07
ATOM	835	HZ N	PHE	50 51	6.140	3.401	-3.131	1.00	0.57
ATOM	836	ĊA	ASP	51	10.567 11.141	-2.710 -4.079	-6.036	1.00	0.72
ATOM	837	č	ASP	51	11.055	-4.800	-6.167 -4.820	1.00	0.76
ATOM	838	ŏ	ASP	51	12.001	-4.829	-4.059	1.00	0.80
ATOM	839	CB	ASP	51	12.605	-3.980	-6.601	1.00	0.84
ATOM	840	CG	λSP	51	12.699	-4.125	-8.120	1.00	1.18
ATOM	841		ASP	51	12.863	-5.243	-8.580	1.00	1.68
MOTA	842		ASP	51	12.603	-3.116	-8.799	1.00	1.85
ATOM ATOM	843 844	HN HA	ASP	51	9.819	-2.438	-6.606	1.00	0.74
ATOM	845		ASP ASP	51 51	10.584 13.174	-4.633	-6.908	1.00	0.78
ATOM	8.46	2HB		51	13.004	-4.767 -3.020	-6.130 -6.304	1.00	0.97 1.23
ATOM	847	N	MET	52	9.926	-5.381	-4.521	1.00	0.75
				_					

ATCM	343 CA MET 349 C MET	52	9.775 -6.100	-3.224	1.00	0.77
ATOM		52	9.189 -7.490	-3.477	1.00	0.81
ATOM		52	8.891 -7.855	-4.597	1.00	0.96
ATCM		52	8.836 -5.310	-2.311	1.00	0.79
ATOM		52	9.638 -4.687	-1.164	1.00	0.87
ATOM		52	9.104 -5.399	0.412	1.00	1.42
ATOM		52	7.774 -4.220	0.750	1.00	0.79
ATOM		52	9.175 -5.344	-5.150	1.00	0.82
ATOM		52	10.742 -6.196	-2.752	1.00	0.83
ATOM		52	8.086 -5.974	-1.907		1.31
ATOM		52	8.355 -4.528	-2.881	1.00	1.31
ATOM		52	9.473 -3.620	-1.150		1.43
ATOM		52	10.689 -4.887	-1.310	1.00	1.41
ATOM		52	7.413 -3.809	-0.183		1.28
ATOM	862 2HE MET 863 3HE MET	52	8.147 -3.422	1.371		1.42
ATOM	864 N GLU	52	6.968 -4.726	1.264	1.00	1.29
ATOM	865 CA GLU	53	9.019 -8.269	-2.444		0.83
ATOM	866 C GLU	53	8.449 -9.634	-2.625		0.88
ATOM	867 O GLU	53	7.073 -9.701	-1.959		0.75
ATOM	868 CB GLU	53 53	6.675 -10.722	-1.434		1.16
ATOM	869 CG GLU	53	9.379 -10.664	-1.981		1.11
ATOM	870 CD GLU		10.817 -10.410	-2.437		1.59
ATOM	871 OE1 GLU	53	11.667 -11.653	-2.170		2.23
ATOM	872 OE2 GLU	53 53	12.056 -11.847	-1.030		2.86
ATOM	873 HN GLU		11.914 -12.391	-3.110		2.66
ATOM	874 HA GLU	53 53	9.264 -7.956	-1.548		0.90
ATOM	875 1HB GLU	53 53	8.350 -9.846	-3.679		0.99
ATOM	876 2HB GLU	53 53	9.079 -11.657	-2.280		1.43
ATOM	877 1HG GLU	53	9.321 -10.578	-0.905	1.00	1.51
ATOM	878 2HG GLU	5 <b>3</b>	11.225 -9.573	-1.891	1.00	1.92
ATOM	879 N ILE	54 54	10.824 -10.188	-3.495		2.01
ATOM	880 CA ILE	54	6.344 -8.619	-1.976		0.66
ATOM	881 C ILE	54	4.995 -8.618	-1.343		0.55
ATOM	882 O ILE	54	4.059 -9.539 3.737 -9.286	-2.125		0.67
ATOM	883 CB ILE	54		-3.269	1.00	L.56
ATOM	884 CG1 ILE	54		-1.356		0.50
MOTA	885 CG2 ILE	54		-0.599		2.56
ATOM	886 CD1 ILE	54	3.056 -7.179 4.865 -4.831	-0.683		0.60
ATOM	887 HN ILE	54	6.684 -7.806	-0.698		0.63
ATOM	888 HA ILE	54	5.074 -8.965	-2.404		1.02
ATOM	889 HB ILE	54	4.333 -6.861	-0.324		.62
MOTA	890 1HG1 ILE	54	6.365 -6.325	-2.376		.59
ATOM	891 2HG1 ILE	54	5.424 -6.565	-1.035 0.439		0.66
ATOM	892 1HG2 ILE	54	3.170 -6.927	0.361		0.67
ATOM	893 2HG2 ILE	54	2.598 -8.153	-0.771		07
ATOM	894 3HG2 ILE	54	2.430 -6.443	-1.165		34
ATOM	895 1HD1 ILE	54	4.877 -4.517	-1.731		.14
ATOM	896 2HD1 ILE	54	5.499 -4.179	-0.116		
ATOM	897 3HD1 ILE	54	3.855 -4.783	-0.319		.07
ATOM	898 N SER	55	3.612 -10.601	-1.516		.27
ATOM	899 CA SER	55	2.690 -11.530	-2.223		).73 ).77
ATOM	900 C SER	55	1.252 -11.225	-1.801		.82
ATOM	901 O SER	55	1.012 -10.432	-0.913		.54
ATOM ATOM	902 CB SER	55	3.037 -12.974	-1.859		.90
ATOM	903 OG SER	55	3.508 -13.649	-3.019		56
ATOM	904 HN SER	55	3.878 -10.784	-0.590		.43
ATOM	905 HA SER 906 1HB SER	55	2.789 -11.393	-3.290		.80
ATOM		55	2.155 -13.470	-1.475		.37
ATOM		55	3.807 -12.983	-1.106		.08
ATOM		55	4.169 -14.288	-2.742		.79
ATOM		56	0.292 -11.846	-2.428.		.77
ATOM		56	-1.127 -11.584	-2.058	1.00 0	.74
ATOM	911 C ASP 912 O ASP	56	-1.325 -11.844	-0.563	1.00 0	.73
ATOM	913 CB ASP	56	-2.253 -11.349	0.043		.00
ATOM	914 CG ASP	56 56	-2.043 -12.510	-2.861	1.00 0	.90
ATOM	915 OD1 ASP	56 56	-2.969 -11.672	-3.745	1.00 1	.56
MOTA	916 OD2 ASP	56 56	-3.948 -11.161	-3.227	1.00 2	.33
ATOM	917 HN ASP	56 56	-2.682 -11.555	-4.926	1.00 2	.15
MOTA	918 HA ASP	56 56	0.504 -12.482	-3.143		.31
ATOM	919 1HB ASP	56	-1.372 -10.556	-2.279		. 69
ATOM	920 2HB ASP	56	-2.637 -13.105	-2.184		.33
MOTA	921 N GLU	57	-1.443 -13.160	-3.481		. 28
ATOM	922 CA GLU	.57	-0.462 -12.618 -0.607 -12.907	0.038		.66
ATOM	923 C GLU	57	-0.097 -11.718	1.492		.70
ATOM	924 O GLU	57	-0.450 -11.548	2.310		.59
	=		4.470 -11.348	3.460	1.00 0	.65

ATOM	925	C3 GLU	57	0.205 -14.154	1.346	1.00	0.82
ATOM	926	CG GLU	57	1.654 -13.966	1.392	1.00	0.74
ATOM	927	CD GLU	57	2.541 -15.013	2.066		
ATOM	928	OE1 GLU	57	3.487 -14.621		1.00	1.01
ATOM	929	OE2 GLU	57	2.260 -16.190	2.730	1.00	1.45
ATOM	930	HN GLU	57		1.907	1.00	1.65
ATOM	931		57	0.280 -13.011	-0.467		0.78
		HA GLU		-1.648 -13.080	1.721	1.00	0.79
ATOM	932	1HB GLU	57	-0.218 -15.013	1.348	1.00	1.04
ATOM	933	2HB GLU	57	0.179 -14.308	2.916	1.00	1.02
MOTA	934	1HG GLU	57	1.993 -12.978	1.667	1.00	0.91
ATOM	935	2HG GLU	57	1.711 -14.080	0.319	1.00	0.91
ATOM	936	N ASP	58	0.735 -10.894	1.732	1.00	0.48
ATOM	937	CA ASP	58	1.266 -9.722	2.486	1.00	0.43
ATOM	938	C ASP	58	0.157 -8.688	2.683	1.00	
ATOM	939	O ASP	58	-0.414 -8.577			0.40
ATOM	940	CB ASP	58	2.422 -9.090	3.744	1.00	0.45
ATOM	941	CG ASP	58		1.708	1.00	0.42
ATOM	942	OD1 ASP	58		2.338	1.00	0.79
ATOM	943			3.790 -10.573	2.936	1.00	1.45
			58	4.706 -8.762	2.213	1.00	1.46
ATOM	944	HN ASP	58	1.013 -11.047	0.805	1.00	0.51
MOTA	945	HA ASP	58	1.622 -10.050	3.450	1.00	0.48
MOTA	946	1HB ASP	58	2.335 -8.015	1.742	1.00	0.63
MOTA	947	2HB ASP	58	2.389 -9.423	0.681	1.00	0.57
MOTA	948	N ALA	59	-0.149 -7.932	1.665	1.00	0.41
ATOM	949	CA ALA	59	-1.221 -6.889	1.775	1.00	0.43
ATOM	950	C ALA	59	-2.458 -7.440	2.503	1.00	0.49
MOTA	951	O ALA	59	-3.224 -6.695	3.082	1.00	
ATOM	952	CB ALA	59	-1.624 -6.444	0.370		0.53
ATOM	953	HN ALA	59	0.331 -8.046		1.00	0.54
ATOM	954	HA ALA	59		0.820	1.00	0.47
ATOM	955	1HB ALA		-0.840 -6.034	2.318	1.00	0.42
			59	-0.987 -6.927	-0.357	1.00	1.28
ATOM	956	2HB ALA	59	-1.516 -5.375	0.288	1.00	1.06
ATOM	957	3HB ALA	59	-2.651 -6.718	0.186	1.00	1.14
ATOM	958	N GLU	60	-2.670 -8.728	2.471	1.00	0.55
ATOM	959	CA GLU	60	-3.868 -9.300	3.154	1.00	0.68
MOTA	960	C GLU	60	-3.558 -9.603	4.624	1.00	0.70
ATOM	961	o glu	60	-4.322 -9.271	5.508	1.00	0.80
ATOM	962	CB GLU	60	-4.285 -10.591	2.448	1.00	0.79
MOTA	963	ca era	60	-5.768 -10.515	2.079	1.00	1.03
ATOM	964	CD GLU	60	-6.450 -11.838	2.431	1.00	1.32
ATOM	965	OE1 GLU	60	-5.791 -12.862	2.349	1.00	
ATOM	966	OE2 GLU	60				1.83
ATOM	967	HN GLU			2.776	1.00	1.97
			60	-2.053 -9.317	1.991	1.00	0.54
ATOM	968	HA GLU	60	-4.676 -8.591	3.103	1.00	0.75
ATOM	969	1HB GLU	60	-4.122 -11.431	3.106	1.00	1.01
ATOM	970	2HB GLU	60	-3.697 -10.716	1.551	1.00	0.99
MOTA	971	1HG GLU	60	-5.867 -10.332	1.020	1.00	1.37
ATOM	972	2HG GLU	60	-6.235 -9.711	2.629	1.00	1.60
ATOM	973	N LYS	61	-2.455 -10.243	4.893	1.00	0.65
ATOM	974	CA LYS	61	-2.114 -10.580	6.309	1.00	0.73
ATOM	975	C LYS	61	-1.365 -9.417	6.968	1.00	0.70
ATOM	976	O LYS	61	-1.291 -9.322	8.177	1.00	0.97
ATOM	977	CB LYS	61	-1.230 -11.828			
ATOM	978	CG LYS	61	-1.407 -12.548	6.336 7.674	1.00	0.81
ATOM	979	CD LYS	61	-1.016 -14.018		1.00	
ATOM	980	CE LYS			7.519	1.00	1.75
ATOM	981		61	0.509 -14.139	7.498	1.00	2.14
ATOM			61	0.913 -15.427	8.131	1.00	2.62
	982	HN LYS	61	-1.859 -10.512	4.166	1.00	0.59
ATOM	983	HA LYS	61	-3.023 -10.776	6.858	1.00	0.85
MOTA	984	1HB LYS	61	-0.197 -11.540	6.218	1.00	1.08
ATOM	985	2HB LYS	61	-1.515 -12.488	5.530	1.00	1.02
ATOM	986	1HG LYS	61	-2.439 -12.483	7.984	1.00	1.80
ATOM	987	2HG LYS	61	-0.777 -12.083	8.419	1.00	1.76
MOTA	988	1HD LYS	61	-1.418 -14.402	6.594	1.00	2.22
ATOM	989	2HD LYS	61	-1.412 -14.585	8.348	1.00	2.08
ATOM	990	1HE LYS	61	0.943 -13.316	8.047	1.00	2.32
ATOM	991	2HE LYS	61	0.858 -14.115	6.477	1.00	2.47
ATOM	992	1HZ LYS	61	1.131 -15.267	9.134	1.00	2.92
ATOM	993	2HZ LYS	61		7.647		2.99
ATOM	994	3HZ LYS		1.755 -15.800		1.00	
ATOM	995		61	0.135 -16.111	8.053	1.00	2.94
ATOM	996	N ILE	62	-0.806 -8.537	6.187	1.00	0.57
ATOM	997	CA ILE	62	-0.058 -7.386	6.767	1.00	0.54
ATOM		C ILE	62	-0.962 -6.642	7.761	1.00	0.59
	998	O ILE	62	-2.163 -6.577	7.587	1.00	1.32
ATOM	999	CB ILE	62	0.397 -6.458	5.621	1.00	0.46
MOTA	1000	CG1 ILE	62	1.569 -5.596	6.093	1.00	0.56
MOTA	1001	CG2 ILE	62	-0.751 -5.549	5.150	1.00	0.67

ATOM	1002	CD1	ILE	63	• • • • •				
ATOM	1003	HN	ILE	62 62	2.130	-4.818	4.903	1.00	0.60
ATCM	1004	HA	ILE	62	-0.873	-8.633	5.215	1.00	0.68
ATOM	1005	HB	ILE	62	0.811	-7.758	7.291	1.00	0.62
ATCM	1006	1HG1		62	0.723	-7.065	4.790	1.00	0.51
ATOM	1007	2HG1		62	2.343	-6.230	6.500	1.00	0.74
ATOM	1008	1HG2	ILE	62	1.230 -0.534	-4.906	6.850	1.00	0.90
ATOM	1009	2HG2	ILE	62	-0.854	-5.178 -4.716	4.159	1.00	1.33
ATOM	1010	3HG2		62	-1.672	-6.112	5.830 5.129	1.00	1.12
MOTA	1011	1HD1	ILE	62	2.337	-5.500	4.091	1.00	1.31
ATOM	1012	2HD1		62	3.042	-4.318	5.195	1.00	1.15
ATOM	1013	3HD1		62	1.405	-4.085	4.580	1.00	1.18
ATOM	1014	N	ALA	63	-0.397	-6.086	8.801	1.00	0.80
ATOM	1015	CA	<b>ALA</b>	63	-1.231	-5.352	9.802	1.00	0.75
ATOM ATOM	1016 1017	. C	ALA	63	-2.146	-4.363	9.078	1.00	0.75
ATOM	1018	CB	YTY	63 63	-3.285	-4.165	9.451	1.00	1.33
ATOM	1019	HN	ALA	63	-0.318	-4.593	10.767	1.00	0.77
ATOM	1020	HA	ALA	63	0.572 -1.831	-6.151 -6,058	8.926	1.00	1.44
ATOM	1021		ALA	63	0.683	-4.995	10.355	1.00	0.77
ATOM	1022		ALA	63	-0.690	-4.701	10.708 11.775	1.00	1.10
MOTA	1023		ALA	63	-0.302	-3.546	10.500	1.00	1.34
ATOM	1024	N	THR	64	-1.652	-3.754	8.037	1.00	0.54
ATOM	1025	Cλ	THR	64	-2.473	-2.782	7.264	1.00	0.48
MOTA	1026	C	THR	64	-1.699	-2.346	6.020	1.00	0.41
ATOM ATOM	1027 1028	0	THR	64	-0.488	-2.449	5.960	1.00	0.42
ATOM	1028	CB OG1	THR	64	-2.769	-1.550	8.126	1.00	0.56
ATOM	1030	CG2		64 64	-1.747	-1.400	9.102	1.00	0.63
ATOM	1031	HN	THR	64	-4.118 -0.737	-1.726	8.820	1.00	0.61
ATOM	1032	HA	THR	64	-3.401	-3.943 -3.247	7.758	1.00	0.91
ATOM	1033	HB	THR	64	-2.804	-0.666	6.968 7.500	1.00	0.48
ATOM	1034	HG1		64	-1.163	-0.695	8.815	1.00	0.64
ATOM	1035	1HG2	THR	64	-4.683	-2.494	8.315	1.00	1.12
ATOM	1036	2HG2	THR	64	-4.663	-0.795	8.788	1.00	1.18
ATOM	1037	3HG2		64	-3.957	-2.014	9.848	1.00	1.16
ATOM ATOM	1038	N	VAL	65	-2.390	-1.839	5.034	1.00	0.36
ATOM	1039 1040	CA	VAL	65	-1.712	-1.363	3.791	1.00	0.31
ATOM	1041	0	VAL	65 65	-0.527	-0.472	4.188	1.00	0.36
ATOM	1042	CB	VAL	6 <b>5</b>	0.546 -2.731	-0.542	3.619	1.00	0.38
ATOM	1043		VAL	65	-2.031	-0.558 0.276	2.979 1.901	1.00	0.30
ATOM	1044		VAL	65	-3.717	-1.523	2.315	1.00	0.37 0.27
MOTA	1045	HN	VAL	65	-3.363	-1.754	5.118	1.00	0.37
ATOM	1046	HA	VAL	65	-1.366	-2.207	3.208	1.00	0.29
ATOM	1047	HB	VAL	65	-3.265	0.098	3.647	1.00	0.37
ATOM	1048	1HG1		65	-0.997	-0.026	1.829	1.00	0.93
ATOM	1049	2HG1		65	-2.084	1.321	2.168	1.00	1.10
MOTA MOTA	1050 1051	3HG1		65	-2.520	0.120	0.952	1.00	1.05
ATOM		1HG2 2HG2		65 65	-4.569	-1.669	2.962	1.00	0.98
ATOM	1053	3HG2		65	-3.230	-2.472	2.142	1.00	1.03
ATOM	1054	N	GLY	66	-4.046 -0.722	-1.111 0.356	1.373	1.00	1.06
ATOM	1055	ĊA	GLY	66	0.379	1.244	5.177 5.634	1.00	0.41
ATOM	1056	C	GLY	66	1.573	0.381	6.023	1.00	0.48
ATOM	1057	0	GLY	66	2.693	0.644	5.633	1.00	0.50
ATOM	1058	HN	GLY	66	-1.593	0.384	5.624	1.00	0.41
ATOM ATOM	1059 1060		GLY	66	0.056	1.812	6.489	1.00	0.52
ATOM	1061	N N	ASP	66	0.659	1.914	4.834	1.00	0.49
ATOM	1062	ČA	ASP	67 67	1.342 2.471	-0.670	6.771	1.00	0.48
ATOM	1063	Č.	ASP	67	3.198	-1.565 -1.973	7.156 5.878	1.00	0.50
ATOM	1064	ŏ	ASP	67	4.399	-2.154	5.858	1.00	0.47
MOTA	1065	CB	ASP	67	1.930	-2.806	7.866	1.00	0.51
ATOM	1066	CG	ASP	67	1.976	-2.588	9.380	1.00	1.01
ATOM	1067	OD1	ASP	67	2.765	-3.253	10.031	1.00	1.56
ATOM ATOM	1068 1069		ASP	67	1.222	-1.760	9.863	1.00	1.78
ATOM	1070	HN HA	ASP	67 67	0.429	-0.877	7.061	1.00	0.48
ATOM	1071		ASP ASP	67 67	3.150	-1.034	7.808	1.00	0.55
ATOM	1072	2HB	ASP	67	2.536 0.911	-3.662	7.609	1.00	0.76
ATOM	1073	N	ALA	68	2.469	-2.980 -2.080	7.557 4.799	1.00	0.81
ATOM	1074	CA	ALA	68	3.108	-2.431	3.504	1.00	0.42
ATOM	1075	C	ALA	68	4.102	-1.322	3.182	1.00	0.45
MOTA MOTA	1076	0	ALA	68	5.221	-1.563	2.769	1.00	0.49
ATOM	1077 1078	CB HN	ALA ALA	68	2.041	-2.512	2.409	1.00	0.37
	_0,0	174	~~~	68	1.504	-1.901	4.839	1.00	0.40

ATOM	1079	на	ALA	68	2 624				
ATCM	1080		ALA	68	3.624	-3.374	3.592	1.00	0.42
ATOM	1081		ALA		1.120	-2.890	2.830	1.00	1.08
ATOM	1082			68	2.377	-3.177	1.627	1.00	1.05
			ALA	68	1.870	-1.528	1.997	1.00	1.11
ATOM	1083	N	VAL	69	3.703	-0.101	3.412	1.00	0.45
ATOM	1084	CA	VAL	69	4.620	1.040	3.169	1.00	0.50
ATOM	1085	С	VAL	69	5.814	0.870	4.119	1.00	0.56
ATOM	1086	0	VAL	69	6.964	0.971	3.730	1.00	
ATOM	1087	CB	VAL	69	3.841	2.363	3.403		0.62
ATOM	1088	CG1	VAL	69	4.347	3.137		1.00	0.51
ATOM	1089	CG2		69	3.978	3.247	4.631	1.00	0.55
ATOM	1090	HN	VAL	69	2.805		,2.162	1.00	0.56
ATOM	1091	HA	VAL	69		0.058	3.773	1.00	0.43
ATOM	1092	HB	VAL		4.970	1.003	2.151	1.00	0.51
ATOM	1093			69	2.796	2.128	3.548	1.00	0.51
ATOM	1094	1HG1		69	5.393	3.370	4.503	1.00	1.25
ATOM		2HG1	VAL	69	4.218	2.531	5.516	1.00	0.95
		3HG1		69	3.783	4.052	4.736	1.00	1.18
ATOM	1096	1HG2		69	4.964	3.687	2.139	1.00	1.18
MOTA	1097	2HG2		69	3.234	4.029	2.194	1.00	1.18
ATOM	1098	3HG2		69	3.829	2.648	1.277	1.00	1.13
ATOM	1099	N	asn	70	5.534	0.571	5.358	1.00	0.57
ATOM	1100	CA	ASN	70	6.629	0.347	6.338	1.00	
ATOM	1101	С	ASN	70	7.446	-0.857	5.866	1.00	0.64
ATOM	1102	Õ	ASN	70	8.623	-0.978			0.64
ATOM	1103	CB	ASN	70	6.031		6.145	1.00	0.71
ATOM	1104	ca	ASN	70 70		0.053	7.716	1.00	0.67
ATOM	1105		ASN		6.539	1.086	8.723	1.00	1.01
	1106			70	5.774	1.617	9.504	1.00	1.73
ATOM		NDZ	ASN	70	7.806	1.396	8.738	1.00	1.38
MOTA	1107	HN	<b>ASN</b>	70	4.600	0.468	5.635	1.00	0.56
ATOM	1108	HA	asn	70	7.257	1.221	6.392	1.00	0.68
ATOM	1109		ASN	70	6.330	-0.934	8.035	1.00	0.87
ATOM	1110		asn	70	4.953	0.103	7.659	1.00	0.85
ATOM	1111	1HD2		70	8.423	0.967	8.108	1.00	1.81
MOTA	1112	2HD2	ASN	70	8.142	2.057	9.379	1.00	1.67
ATOM	1113	N	TYR	71	6.818	-1.747	5.141	1.00	0.60
ATOM	1114	CA	TYR	71	7.529	-2.950	4.629	1.00	0.62
MOTA	1115	С	TYR	71	8.618	-2.519	3.646	1.00	0.66
ATOM	1116	Ó	TYR	71	9.677	-3.110	3.577	1.00	0.74
ATOM	1117	CB	TYR	71	6.523	-3.851			
ATOM	1118	CG	TYR	71			3.906	1.00	0.59
ATOM	1119	CD1		71	6.898	-5.299	4.100	1.00	0.61
ATOM	1120				8.096	-5.789	3.568	1.00	1.36
		CD2	TYR	71	6.046	-6.153	4.811	1.00	1.33
ATOM	1121	CE1	TYR	71	8.443	-7.133	3.747	1.00	1.39
MOTA	1122	CE2	TYR	71	6.393	-7.497	4.990	1.00	1.38
ATOM	1123	CZ	TYR	71	7.592	-7.987	4.459	1.00	0.77
ATOM	1124	OH	TYR	71	7.934	-9.313	4.636	1.00	0.90
MOTA	1125	HN	TYR	71	5.870	-1.621	4.930	1.00	0.57
MOTA	1126	HA	TYR	71	7.973	-3.488	5.451	1.00	0.65
ATOM	1127	1HB	TYR	71	6.526	-3.618	2.851	1.00	0.61
ATOM	1128	2HB	TYR	71	5.535	-3.680	4.307	1.00	0.60
ATOM	1129	HD1		71	8.751	-5.130	3.018	1.00	2.21
ATOM	1130	HD2	TYR	71	5.120	-5.774	5.219	1.00	2.16
ATOM	1131		TYR	71	9.368	-7.512	3.337		
ATOM	1132	HE2	TYR	71	5.736	-8.156	5.539	1.00	2.24
ATOM	1133	HH	TYR	71	8.247				2.23
ATOM	1134	N	ILE	72		-9.653	3.794	1.00	0.96
ATOM	1135	ĊA	ILE	72	8.361	-1.496	2.878	1.00	0.64
ATOM	1136	č	ILE		9.378	-1.030	1.889	1.00	0.70
ATOM	1137			72	10.536	-0.355	2.617	1.00	0.77
	1137	0	ILE	72	11.691	-0.567	2.304	1.00	0.86
ATOM	1138	CB	ILE	72	8.753	-0.013	0.930	1.00	0.67
ATOM	1139	CG1		72	7.417	-0.533	0.403	1.00	0.65
ATOM	1140	CG2	ILE	72	9.699	0.228	-0.249	1.00	0.76
ATOM	1141		ILE	72	6.447	0.637	0.268	1.00	0.63
ATOM	1142	HM	ILE	72	7.496	-1.039	2.947	1.00	0.61
ATOM	1143	HA	ILE	72	9.746	-1.875	1.329	1.00	0.74
ATOM	1144	HB	ILE	72	8.594	0.919	1.454	1.00	0.65
ATOM	1145	1HG1	ILE	72	7.010	-1.257	1.089	1.00	0.81
ATOM	1146	2HG1	ILE	72	7.566	-0.991	-0.563	1.00	0.80
ATOM	1147	1HG2	ILE	72	10.596	0.714	0.104	1.00	1.22
ATOM	1148		ILE	72	9.211	0.859	-0.978	1.00	1.24
ATOM	1149	3HG2	ILE	72	9.954	-0.716	-0.705		
ATOM	1150	1HD1		72	5.439	0.287	0.424	1.00	1.38
ATOM	1151	2HD1	ILE	72	6.533			1.00	1.17
ATOM	1152	3HD1	ILE	72	6.686	1.065	-0.720	1.00	1.24
ATOM	1153	N	GLN	73	10.235	1.389	1.007	1.00	1.22
ATOM	1154	ĊA	GLN	73	11.332	0.467	3.579	1.00	0.76
ATOM	1155	č	GLN	73		1.171	4.317	1.00	0.85
		-			12.217	0.129	5.002	1.00	0.92

ATCM	1156 0	GLN	73	13.399	0.333	5.193	1.00	1.03
MCTA	1157 CB	GLN	73	10.789	2.142	5.389	1.00	
ATOM	1158 CG	GLN	73	9.338	2.558			0.88
ATOM	1159 CD	GLN	73	9.185		5.107	1.00	1.08
ATON			73		3.028	3.659	1.00	1.11
		GLN		10.158	3.203	2.953	1.00	2.07
MOTA		GLN	73	7.986	3.238	3.187	1.00	0.83
ATOM	1162 HN	GLN	73	9.295	0.622	3.803	1.00	0.71
MOTA	1163 HA	GLN	73	11.931	1.725	3.608	1.00	0.89
MOTA	1164 1HB	GLN	73	11.411	3.025	5.409	1.00	1.16
MOTA	1165 2HB	GLN	73	10.833	1.661	6.354	1.00	1.09
MOTA	1166 1HG	GLN	73	9.061	3.362	5.773	1.00	1.61
ATOM	1167 2HG	GLN	73	8.690	1.715	5.276	1.00	1.71
ATOM	1168 1HE2	GLN	73	7.203	3.095	3.760	1.00	1.17
ATOM		GLN	73	7.866	3.535	2.264	1.00	1.07
ATOM	1170 N	ASN	74	11.654	-0.988	5.374	1.00	0.90
ATOM	1171 CA	ASN	74	12.463	-2.044	6.046	1.00	
ATOM	1172 C	ASN	74	13.479	-2.616	5.054		1.01
ATOM	1173 0	ASN	74	14.494			1.00	1.06
ATOM	1174 CB	ASN	74		-3.163	5.438	1.00	1.18
ATOM				11.540	-3.162	6.533	1.00	1.08
		ASN	74	11.703	-3.336	8.044	1.00	1.31
ATOM	1176 OD1		74	11.348	-2.462	8.810	1.00	1.90
MOTA	1177 ND2		74	12.230	-4.436	8.509	1.00	1.80
atom	1178 HN	asn	74	10.698	-1.133	5.211	1.00	0.85
atom	1179 HA	asn	74	12.985	-1.615	6.888	1.00	1.07
ATOM	1180 1HB	asn	74	11.799	-4.085	6.037	1.00	1.21
ATOM	1181 2HB	ASN	74	10.515	-2.906	6.308	1.00	1.26
ATOM	1182 1HD2	ASN	74	12.517	-5.141	7.892	1.00	2.30
ATOM	1183 2HD2		74	12.338	-4.556	9.476	1.00	2.08
ATOM	1184 N	GLN	75	13.216	-2.493	3.782	1.00	1.08
ATOM	1185 CA	GLN	75	14.169	-3.029	2.771	1.00	
ATOM	1186 C	GLN	75	15.182	-1.943			1.22
ATOM	1187 0	GLN	75		71.743	2.404	1.00	1.23
ATOM				16.286	-2.226	1.984	1.00	1.40
ATOM		GLN	75	13.399	-3.456	1.520	1.00	1.31
	1189 CG	GLN	75	12.566	-4.700	1.835	1.00	1.54
ATOM	1190 CD	GLN	75	13.222	-5.927	1.200	1.00	1.98
ATOM		GLN	75	13.372	-6.949	1.839	1.00	2.43
ATOM		GLN	75	13.622	-5.869	-0.041	1.00	2.55
ATOM	1193 HN	GLN	75	12.393	-2.048	3.491	1.00	1.09
ATOM	1194 HA	GLN	75	14.689	-3.881	3.183	1.00	1.35
ATOM		GLN	75	14.097	-3.684	0.728	1.00	1.65
ATOM	1196 2HB	GLN	75	12.747	-2.654	1.207	1.00	1.73
ATOM	1197 1HG	CLN	75	11.571	-4.578	1.435	1.00	1.95
ATOM	1198 2HG	CLN	75	12.511	-4.834	2.906	1.00	1.75
ATOM	1199 1HE2	GLN	75	13.500	-5.044	-0.557	1.00	2.92
ATOM	1200 2HE2	GLN	75	14.042	-6.650	-0.457	1.00	2.94
ATOM	1201 N	GLN	76	14.815	-0.700	2.563	1.00	1.14
ATOM	1202 CA	GLN	76	15.757	0.403	2.227	1.00	1.25
ATOM	1203 C	GLN	76	16.763	0.577	3.366	1.00	1.67
ATOM	1204 0	GLN	76	16.522	0.032	4.431	1.00	2.01
ATOM	1205 CB	GLN	76	14.974	1.704	2.037		1.23
ATOM	1206 CG	GLN	76	14.091			1.00	
ATOM	1207 CD	GLN	5		1.590	0.793	1.00	1.15
ATOM			76 76	14.345	2.786	-0.126	1.00	1.58
	1200 021	GLN	76	14.865	3.797	0.304	1.00	2.23
ATOM		GLN	76	14.000	2.713	-1.382	1.00	1.97
MOTA	1210 OXT	GLN	76	17.757	1.252	3.155	1.00	2.36
ATOM	1211 HN	GLN	76	13.919	-0.494	2.905	1.00	1.10
ATOM	1212 HA	GLN	76	16.283	0.163	1.315	1.00	1.55
ATOM		GLN	76	15.664	2.525	1.912	1.00	1.74
ATOM		GLN	76	14.355	1.881	2.905	1.00	1.68
ATOM		GLN	76	13.052	1.580	1.088	1.00	1.43
ATOM	1216 2HG	GLN	76	14.326	0.675	0.269	1.00	1.35
ATOM	1217 1HE2	GLN	76	13.582	1.897	-1.728	1.00	2.28
ATOM	1218 2HE2	GLN	76	14.159	3.474	-1.979	1.00	2.36
END								